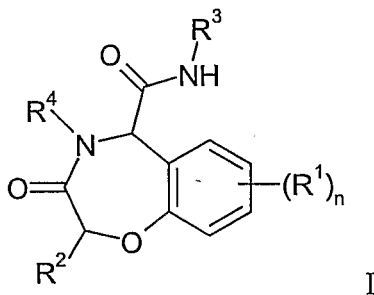


- 1 -

2,3,4,5-TETRAHYDROBENZO[F][1,4]OXAZEPINE-5-CARBOXYLIC ACID AMIDE DERIVATIVES AS GAMMA-SECRETASE INHIBITORS FOR THE TREATMENT OF ALZHEIMER'S DISEASE

The invention relates to benzoxazepinone derivatives of formula



wherein

- R^1 is hydrogen, lower alkoxy, halogen or $-NR'R''$;
 5 n is 1 or 2;
 R', R'' are independently from each other hydrogen or lower alkyl;
- R^2 is hydrogen, lower alkyl, $-(CH_2)_m$ -cycloalkyl, $-(CH_2)_m$ -phenyl or $-(CH_2)_m$ -O-lower alkyl;
 m is 0, 1 or 2;
- 10 R^3 is lower alkyl, $-(CH_2)_m$ -C(O)O-lower alkyl, cycloalkyl or $-(CH_2)_m$ -phenyl, which is unsubstituted or substituted by one or two substituents, selected from the group consisting of halogen or lower alkyl;
- R^4 is $-(CH_2)_6$ -phenyl, which is unsubstituted or substituted by one or two substituents, selected from the group consisting of halogen, trifluoromethyl,
 15 $-NR'R''$, nitro or $-SO_2NH_2$, or is
 $-$ cycloalkyl, unsubstituted or substituted by phenyl, or is
 $-(CR'R'')_6$ -heterocyclyl, selected from the group consisting of tetrahydropyran-4-yl, pyridin-3-yl, indol-3-yl, optionally substituted by halogen or

- lower alkoxy, or thiophen-2-yl, furan-2-yl, -NH-pyridin-2-yl, optionally substituted by nitro, or benzoimidazol-2-yl, 2-oxo-tetrahydrofuran, 1-benzyl-piperidin-4-yl, or benzo[1,3]dioxol-5-yl or is
- tetrahydro-naphthalen-1-yl,
 - 5 - CHR'-naphthalen-2-yl,
 - fluoren-9-yl,
 - (CH₂)_o-S-lower alkyl,
 - (CH₂)_o-S-benzyl,
 - (CH₂)_o-C(O)NH₂,
 - 10 - (CH₂)_oNR'R'',
 - CH[C(O)NH₂]- (CH₂)_o-phenyl,
 - (CH₂)_o-CF₃,
 - (CH₂)_o-CR'R''-CH₂-NR'R'';

and o is 1 or 2;

- 15 and to pharmaceutically suitable acid addition salts thereof.

As used herein, the term "lower alkyl" denotes a saturated straight- or branched-chain alkyl group containing from 1 to 6 carbon atoms, for example, methyl, ethyl, propyl, isopropyl, n-butyl, i-butyl, 2-butyl, t-butyl and the like. Preferred lower alkyl groups are groups with 1 - 4 carbon atoms.

- 20 The term "cycloalkyl" denotes a saturated carbocyclic group, containing 3 - 7 carbon atoms.

The term "halogen" denotes chlorine, iodine, fluorine and bromine.

The term "lower alkoxy" denotes a group wherein the alkyl residues is as defined above, and which is attached via an oxygen atom.

- 25 The term "pharmaceutically acceptable acid addition salts" embraces salts with inorganic and organic acids, such as hydrochloric acid, nitric acid, sulfuric acid, phosphoric acid, citric acid, formic acid, fumaric acid, maleic acid, acetic acid, succinic acid, tartaric acid, methane-sulfonic acid, p-toluenesulfonic acid and the like.

It has been found that the compounds of general formula I are γ -secretase inhibitors and the related compounds may be useful in the treatment of Alzheimer's disease.

Alzheimer's disease (AD) is the most common cause of dementia in later life.
5 Pathologically AD is characterized by the deposition in the brain of amyloid in extracellular plaques and intracellular neurofibrillary tangles. The amyloid plaques are mainly composed of amyloid peptides (Abeta peptides) which originate from the β -Amyloid Precursor Protein (APP) by a series of proteolytic cleavage steps. Several forms of APP have been identified of which the most abundant are proteins of 695, 751 and 770
10 amino acids length. They all arise from a single gene through differential splicing. The Abeta peptides are derived from the same domain of the APP but differ at their N- and C-termini, the main species are of 40 and 42 amino-acid length.

Abeta peptides are produced from APP through the sequential action of 2 proteolytic enzymes termed β - and γ -secretase. β -Secretase cleaves first in the
15 extracellular domain of APP just outside of the trans-membrane domain (TM) to produce a C-terminal fragment of APP containing the TM- and cytoplasmatic domain (CTF β). CTF β is the substrate for γ -secretase which cleaves at several adjacent positions within the TM to produce the A β peptides and the cytoplasmic fragment. The majority of Abeta peptides is of 40 amino acids length (A β 40), a minor species carries 2 additional
20 amino acids at its C-terminus. Latter is supposed to be the more pathogenic amyloid peptide.

The β -secretase is a typical aspartyl protease. The γ -secretase is a proteolytic activity consisting of several proteins, its exact composition is incompletely understood. However, the presenilins are essential components of this activity and may represent a
25 new group of atypical aspartyl proteases which cleave within the TM of their substates and which are themselves polytopic membrane proteins. Other essential components of γ -secretase may be nicastrin and the products of the aph1 and pen-2 genes. Proven substrates for γ -secretase are the APP and the proteins of the Notch receptor family, however, γ -secretase has a loose substrate specificity and may cleave further membrane
30 proteins unrelated to APP and Notch.

The γ -secretase activity is absolutely required for the production of Abeta peptides. This has been shown both by genetic means, i.e., ablation of the presenilin genes and by low-molecular-weight inhibitory compounds. Since according to the amyloid hypothesis or AD the production and deposition of Abeta is the ultimate cause for the disease, it is
5 thought that selective and potent inhibitors of γ -secretase will be useful for the prevention and treatment of AD.

Thus, the compounds of this invention will be useful treating AD by blocking the activity of γ -secretase and reducing or preventing the formation of the various amyloidogenic Abeta peptides.

10 Numerous documents describe the current knowledge on γ -secretase inhibition, for example the following publications:

Nature Reviews/Neuroscience, Vol. 3, April 2002/281,
Biochemical Society Transactions (2002), Vol. 30. part 4,
Current Topics in Medicinal Chemistry, 2002, 2, 371-383,
15 Current Medicinal Chemistry, 2002, Vol. 9, No. 11, 1087-1106,
Drug Development Research, 56, 211-227, 2002,
Drug Discovery Today, Vol. 6, No. 9, May 2001, 459-462,
FEBS Letters, 483, (2000), 6-10,
Science, Vol. 297, 353-356, July 2002 and
20 Journ. of Medicinal Chemistry, Vol. 44, No. 13, 2001, 2039-2060.

Objects of the present invention are the compounds of formula I per se, the use of compounds of formulas I and their pharmaceutically acceptable salts for the manufacture of medicaments for the treatment of diseases, related to the γ -secretase inhibition, their
25 manufacture, medicaments based on a compound in accordance with the invention and their production as well as the use of compounds of formula I in the control or prevention of Alzheimer's disease.

A further object of the invention are all forms of optically pure enantiomers, recemates or diastereomeric mixtures for compounds of formulas I.

The most preferred compounds are those, wherein R^2 is lower alkyl.
30 Especially preferred are compounds of this group, wherein R^3 is cycloalkyl and R^4 is $-(CH_2)_6$ -phenyl, substituted by di-halogen or $-NR'R''$, or is tetrahydro-pyran-4-yl, or is $-(CH_2)_6$ -pyridin-3-yl.
The following specific compounds relate to these groups:

- 7-bromo-4-(2,6-difluoro-benzyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide,
 7-chloro-4-(4-chloro-2-fluoro-benzyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide,
 5 7-bromo-4-(4-chloro-2-fluoro-benzyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamid and
 7-bromo-4-(4-dimethylamino-benzyl)-2-isopropyl-9-methoxy-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide, or
 7-chloro-2-ethyl-3-oxo-4-(tetrahydro-pyran-4-yl)-2,3,4,5-tetrahydro-
 10 benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide, or
 7-chloro-2-isopropyl-3-oxo-4-(1,2,3,4-tetrahydro-naphthalen-1-yl)-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamid and
 8-diethylamino-2-isopropyl-3-oxo-4-(1,2,3,4-tetrahydro-naphthalen-1-yl)-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide, or
 15 7-chloro-2-isopropyl-3-oxo-4-pyridin-3-ylmethyl-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide.

Further preferred are compounds with R² being lower alkyl, wherein R³ is lower alkyl and R⁴ is

- (CH₂)₆-phenyl, substituted by di-halogen or NR'R'', or
 20 - (CR'R'')₆indol-3-yl, substituted by lower alkoxy, or
 - cycloalkyl, or
 - (CH₂)₆-benzo[1,3]dioxol-5-yl, or
 - 1-benzyl-piperidin-4-yl.

25 The following specific compounds relate to these groups:

- 7-chloro-4-(2,6-difluoro-benzyl)-2-ethyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide,
 4-(4-dimethylamino-benzyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid butylamide,
 30 7-chloro-4-(4-dimethylamino-benzyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid butylamide,
 4-(4-dimethylamino-benzyl)-2-isopropyl-8-methoxy-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid butylamide,
 7-bromo-4-(4-dimethylamino-benzyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-
 35 benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide and

- 9-ethoxy-2-isopropyl-4-[2-(5-methoxy-1H-indol-3-yl)-ethyl]-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide and
 7-chloro-4-cyclopentyl-2-ethyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide and
 5 4-benzo[1,3]dioxol-5-ylmethyl-8-diethylamino-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide and
 4-(1-benzyl-piperidin-4-yl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide.

- Preferred are further compounds with R^2 being lower alkyl, wherein R^3 is -
 10 $(CH_2)_m$ -phenyl and R^4 is cycloalkyl.

The following specific compound relate to this group:

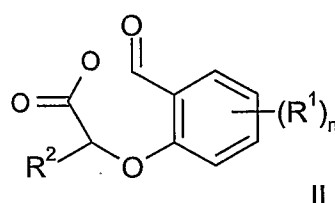
7-chloro-4-cyclohexyl-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid benzylamide.

- 15 Preferred are further compounds with R^2 being lower alkyl, wherein R^3 is $-(CH_2)_m-C(O)O$ -lower alkyl and R^4 is $-(CH_2)_o$ -phenyl, substituted by CF_3 or halogen.
 The following specific compounds relate to these groups:

- {[7-chloro-2-isopropyl-3-oxo-4-(3-trifluoromethyl-benzyl)-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carbonyl]-amino}-acetic acid tert-butyl ester and
 20 {[7-bromo-4-(2-chloro-benzyl)-2-isopropyl-9-methoxy-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carbonyl]-amino}-acetic acid tert-butyl ester.

- The present compounds of formulas I and their pharmaceutically acceptable salts can be prepared by methods known in the art, for example, by processes described below,
 25 which processes comprise

a) reacting a compound of formula



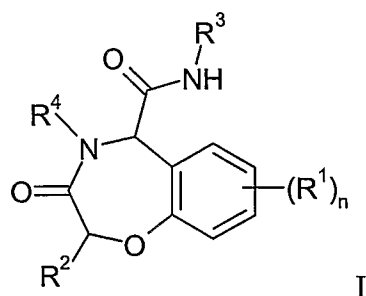
with a compound of formula



and with a compound of formula



to a compound of formula



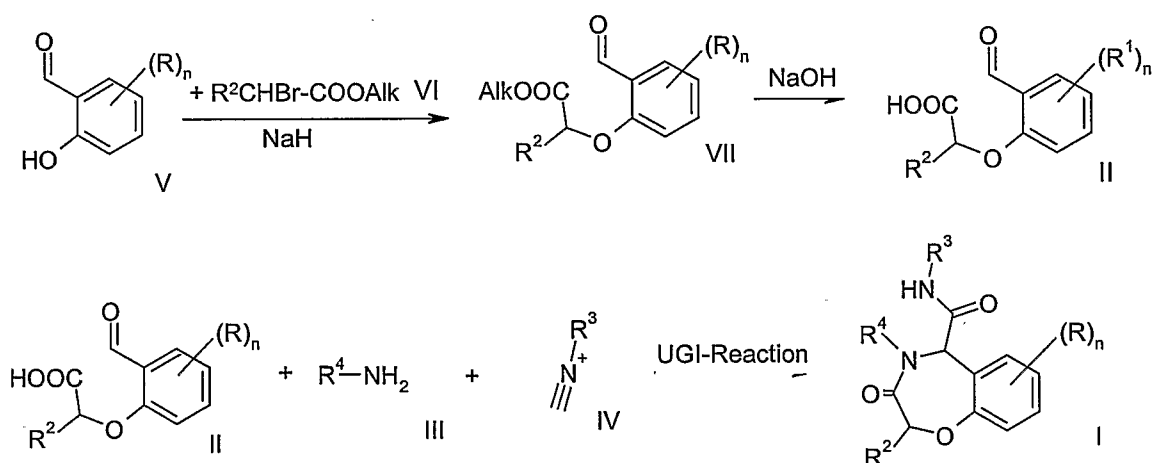
5 and

if desired, converting the compounds obtained into pharmaceutically acceptable acid addition salts.

The compounds of formula I may be prepared in accordance with the following scheme 1:

10

Scheme 1



In this scheme R^1 to R^4 are as described above.

- 15 A general synthesis of the benzoxazepinone skeleton is described in Zhang et al.: J. Org. Chem. 1999, 64, 1074 ff. The corresponding o-hydroxybenzaldehyde (V) is reacted with the alpha-bromocarboxylic acid alkylester (VI) to the 2-formylphenoxyacetic acid alkylester (VII), which is subsequently saponified to the 2-formylphenoxyacetic acid (II).

This acid is reacted with the amine (III) and isonitrile (IV) in an Ugi-type reaction to the benzoxazepinone derivative of formula I.

The starting materials (hydroxybenzaldehyde V and α -bromoesters VI) are commercial available or may be prepared in accordance with known methods.

5

The detailed description can be found below and in Examples 1 – 196.

Some compounds of formula I may be converted to a corresponding acid addition salt, for example compounds, containing an amine group.

10 The conversion is accomplished by treatment with at least a stoichiometric amount of an appropriate acid, such as hydrochloric acid, hydrobromic acid, sulfuric acid, nitric acid, phosphoric acid and the like, and organic acids such as acetic acid, propionic acid, glycolic acid, pyruvic acid, oxalic acid, malic acid, malonic acid, succinic acid, maleic acid, fumaric acid, tartaric acid, citric acid, benzoic acid, cinnamic acid, mandelic acid,
15 methanesulfonic acid, ethanesulfonic acid, p-toluenesulfonic acid, salicylic acid and the like. Typically, the free base is dissolved in an inert organic solvent such as diethyl ether, ethyl acetate, chloroform, ethanol or methanol and the like, and the acid added in a similar solvent. The temperature is maintained between 0 °C and 50 °C. The resulting salt precipitates spontaneously or may be brought out of solution with a less polar solvent.

20 The acid addition salts of compounds of formula I may be converted to the corresponding free bases by treatment with at least a stoichiometric equivalent of a suitable base such as sodium or potassium hydroxide, potassium carbonate, sodium bicarbonate, ammonia, and the like.

The compounds of formulas I and their pharmaceutically usable addition salts
25 possess valuable pharmacological properties. Specifically, it has been found that the compounds of the present invention may inhibit the γ -secretase.

The compounds were investigated in accordance with the test given hereinafter.

Description of γ -secretase assay

The activity of test compounds can be evaluated in assays which measure the
30 proteolytic cleavage of suitable substrates by γ -secretase activity. These can be cellular assays where e.g., a substrate of the γ -secretase is fused in its cytoplasmic domain to a transcription factor. Cells are transfected with this fusion gene and a reporter gene, e.g., firefly luciferase, which expression is enhanced by the transcription factor. Cleavage of

- the fused substrate by γ -secretase will lead to expression of the reporter gene which can be monitored in appropriate assays. The γ -secretase activity can also be determined in cell-free in vitro assays where e.g., a cell lysate containing the γ -secretase complex is incubated with a suitable APP-derived substrate which is cleaved to the Abeta peptides.
- 5 The amount of produced peptides can be determined with specific ELISA assays. Cell lines of neuronal origin secrete Abeta peptides which can be measured with the specific ELISA assay. Treatment with compounds which inhibit γ -secretase leads to a reduction of secreted Abeta thus providing a measure of inhibition.

The in vitro assay of γ -secretase activity uses a HEK293 membrane fraction as a source of

10 γ -secretase and a recombinant APP substrate. Latter consist of the C-terminal 100 amino acids of human APP fused to a 6xHistidin tail for purification which is expressed in E.coli in a regulatable expression vector, e.g. pEt15. This recombinant protein corresponds to the truncated APP fragment which results after γ -secretase cleavage of the extracellular

15 domain and which constitutes the γ -secretase substrate. The assay principle is described in Li YM et al, PNAS 97(11), 6138-6143 (2000). Hek293 cells are mechanically disrupted and the microsomal fraction is isolated by differential centrifugation. The membranes are solubilized in detergent (0.25 % CHAPSO) and incubated with the APP substrate. The Abeta peptides which are produced by γ -secretase cleavage of the substrate are detected

20 by specific ELISA assays as described (Brockhaus M et al, Neuroreport 9(7), 1481-1486 (1998).

The preferred compounds show a $IC_{50} \sim 1.0$. In the list below are described some data to the γ -secretase inhibition:

Example No.	IC_{50} in vitro	Example No.	IC_{50} in vitro
1	0.28	115	0.97
10	0.97	117	0.89
12	1.05	122	0.96
16	0.89	133	0.31
30	1.10	134	0.18

36	0.77	150	0.67
76	1.16	160	0.46
86	0.83	165	0.88
89	1.04	178	0.81
96	0.62	186	0.52

The compounds of formula I and the pharmaceutically acceptable salts of the compounds of formula I can be used as medicaments, e.g. in the form of pharmaceutical preparations. The pharmaceutical preparations can be administered orally, e.g. in the form of tablets, coated tablets, dragées, hard and soft gelatine capsules, solutions, emulsions or suspensions. The administration can, however, also be effected rectally, e.g. in the form of suppositories, parenterally, e.g. in the form of injection solutions.

The compounds of formula I can be processed with pharmaceutically inert, inorganic or organic carriers for the production of pharmaceutical preparations. Lactose, corn starch or derivatives thereof, talc, stearic acids or its salts and the like can be used, for example, as such carriers for tablets, coated tablets, dragées and hard gelatine capsules. Suitable carriers for soft gelatine capsules are, for example, vegetable oils, waxes, fats, semi-solid and liquid polyols and the like. Depending on the nature of the active substance no carriers are, however, usually required in the case of soft gelatine capsules. Suitable carriers for the production of solutions and syrups are, for example, water, polyols, glycerol, vegetable oil and the like. Suitable carriers for suppositories are, for example, natural or hardened oils, waxes, fats, semi-liquid or liquid polyols and the like.

The pharmaceutical preparations can, moreover, contain preservatives, solubilizers, stabilizers, wetting agents, emulsifiers, sweeteners, colorants, flavorants, salts for varying the osmotic pressure, buffers, masking agents or antioxidants. They can also contain still other therapeutically valuable substances.

Medicaments containing a compound of formula I or a pharmaceutically acceptable salt thereof and a therapeutically inert carrier are also an object of the present invention, as is a process for their production, which comprises bringing one or more compounds of formula I and/or pharmaceutically acceptable acid addition salts and, if

desired, one or more other therapeutically valuable substances into a galenical administration form together with one or more therapeutically inert carriers.

In accordance with the invention compounds of formula I as well as their pharmaceutically acceptable salts are useful in the control or prevention of illnesses based
5 on the inhibition of the γ -secretase, such as of Alzheimer's disease.

The dosage can vary within wide limits and will, of course, have to be adjusted to the individual requirements in each particular case. In the case of oral administration the dosage for adults can vary from about 0.01 mg to about 1000 mg per day of a compound of general formula I or of the corresponding amount of a pharmaceutically acceptable
10 salt thereof. The daily dosage may be administered as single dose or in divided doses and, in addition, the upper limit can also be exceeded when this is found to be indicated.

Tablet Formulation (Wet Granulation)

	<u>Item</u>	<u>Ingredients</u>	<u>mg/tablet</u>			
			5 mg	25 mg	100 mg	500 mg
15	1.	Compound of formula I	5	25	100	500
	2.	Lactose Anhydrous DTG	125	105	30	150
	3.	Sta-Rx 1500	6	6	6	30
	4.	Microcrystalline Cellulose	30	30	30	150
	5.	Magnesium Stearate	1	1	1	1
20		Total	167	167	167	831

Manufacturing Procedure

1. Mix items 1, 2, 3 and 4 and granulate with purified water.
2. Dry the granules at 50°C.
3. Pass the granules through suitable milling equipment.
- 25 4. Add item 5 and mix for three minutes; compress on a suitable press.

Capsule Formulation

<u>Item</u>	<u>Ingredients</u>	<u>mg/capsule</u>			
		5 mg	25 mg	100 mg	500 mg
1.	Compound of formula IA or IB	5	25	100	500
5 2.	Hydrous Lactose	159	123	148	---
3.	Corn Starch	25	35	40	70
4.	Talc	10	15	10	25
5.	Magnesium Stearate	1	2	2	5
	Total	200	200	300	600

10 Manufacturing Procedure

1. Mix items 1, 2 and 3 in a suitable mixer for 30 minutes.
2. Add items 4 and 5 and mix for 3 minutes.
3. Fill into a suitable capsule.

The following examples illustrate the present invention without limiting it. The examples are compounds which can exist in the form of diastereomeric mixtures, as racemates, or as optically pure compounds.

5

Example 1

7-Bromo-4-(2,6-difluoro-benzyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

a) 2-(4-Bromo-2-formyl-phenoxy)-3-methyl-butyric acid

To a solution of 0.67 g (3.3 mmol) 5-bromosalicylaldehyde in dimethylformamide (6 ml)
10 0.2 g sodium hydride (60 % suspension in mineral oil, 5 mmol) was added in small
portions at 0 °C. After stirring for about half an hour 1.05 g ethyl 2-bromo-3-methyl
butyrate (5 mmol) was added slowly at room temperature and the mixture was allowed to
stir at 90 °C overnight. After cooling ice water (25 ml) and 1N sodium hydroxide solution
was added until basic pH. The mixture was extracted three times with ethyl acetate, the
15 combined organic layers were dried (MgSO₄) and evaporated. Short column filtration of
the residue yielded the ester that was used for the next step without characterisation.

The ester was dissolved in 2 ml of methanol and 2N aqueous sodium hydroxide solution
(2 ml) was added. After stirring for 1 hour at room temperature the solvent was removed
by rotary evaporation. Water (3 ml) and 4N hydrochloric acid was added until pH=4.
20 The mixture was extracted three times with ethyl acetate, the combined organic layers
were dried (MgSO₄) and evaporated to yield 0.125 g of the title compound as colourless
oil.

MS m/e (%): 299.0 (M-H⁺, 93); 301.0 (M-H⁺, 100).

b) 7-Bromo-4-(2,6-difluoro-benzyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-
25 benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

To a solution of 0.12 g 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid (0.4
mmol) in dimethylsulfoxide (0.8 ml) 0.057 g 2,6-difluorobenzylamine (0.4 mmol) and
0.044 g cyclohexyl isocyanide (0.4 mmol) was added and the mixture was allowed to stir
overnight. A 10 % aqueous sodium chloride solution (5 ml) was added and the mixture
30 was extracted three times with ethyl acetate. The combined organic layers were dried
(MgSO₄) and evaporated in vacuo. The residue was purified using column
chromatography with ethylacetate / hexane (1:4) as eluent to yield 0.03 g of the title
compound as light yellow foam.

MS m/e (%): 535.3 ($M+H^+$, 100); 537.3 ($M+H^+$, 95).

Example 2

7-Bromo-4-(2,6-difluoro-benzyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid 3,4-dichloro-benzylamide

- 5 The title compound was obtained in comparable yields according to the procedures described for example 1 using 1,2-dichloro-4-isocyanomethyl-benzene instead of cyclohexyl isocyanide in step b).

MS m/e (%): 629 ($M+H_2O+H^+$, 58); 630 ($M+H_2O+H^+$, 100);.

Example 3

- 10 7-Bromo-4-(2,6-difluoro-benzyl)-2-ethyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

- 2,6-Difluorobenzylamine (51mg, 0.35mmol) and cyclohexylisocyanide (39 mg, 0.36 mmol) were added to a solution of 2-(4-bromo-2-formyl-phenoxy)-butyric acid (prepared in analogy to 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid [example 15 1] from ethyl 2-bromo-3-methyl butyrate, 100 mg, 0.35 mmol) in methanol (0.5 ml). After stirring for 2h at r.t., the title compound was isolated (diastereomer 1 [inhibitorially active], retention time 2.09 min: 17.9 mg; diastereomer 2 [inhibitorially active], retention time 2.28 min, 7.3 mg, combined yield 14 %, MS: m/e = 521.1 [$M+H^+$]) from the reaction mixture by reversed-phase, preparative HPLC (YMC CombiPrep C18 column 20 50x20mm, solvent gradient 5-95 % CH_3CN in 0.1 % TFA(aq) over 6.0min, λ = 230nm, flow rate 40ml/min).

Example 4

7-Bromo-2-cyclohexylmethyl-4-(2,6-difluoro-benzyl)-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

- 25 The title compound, MS: m/e = 589.4 [$M+H^+$], was obtained in analogy to example 3 from 2-(4-bromo-2-formyl-phenoxy)-3-cyclohexyl-propionic acid (prepared in analogy to 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid [example 1] from 2-bromo-3-cyclohexyl-propionic acid ethyl ester) as a mixture of diastereomers.

Example 5

- 30 7-Bromo-2-butyl-4-(2,6-difluoro-benzyl)-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS: $m/e = 549.4$ [$M+H^+$], was obtained in analogy to example 3 from 2-(4-bromo-2-formyl-phenoxy)-hexanoic acid (prepared in analogy to 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid [example 1] from methyl 2-bromocaproate) as a mixture of diastereomers.

5

Example 6

7-Chloro-4-cyclohexyl-2-ethyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS: $m/e = 433.5$ ($M+H^+$), was obtained in analogy to example 3 from cyclohexylamine and 2-(4-chloro-2-formyl-phenoxy)-butyric acid (prepared in analogy to 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid [example 1] from ethyl 2-bromo-n-butyrate and 5-chlorosalicylaldehyde) as two separable diastereomers (both inhibitorily active).

10

Example 7

7-Chloro-4-(2-chloro-benzyl)-2-ethyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

15

The title compound, MS: $m/e = 475.3$ ($M+H^+$), was obtained in analogy to example 3 from 2-chlorobenzylamine and 2-(4-chloro-2-formyl-phenoxy)-butyric acid (prepared in analogy to 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid [example 1] from ethyl 2-bromo-n-butyrate and 5-chlorosalicylaldehyde) two separable diastereomers (both inhibitorily active).

20

Example 8

7-Chloro-4-cyclobutyl-2-ethyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS: $m/e = 405.4$ ($M+H^+$), was obtained in analogy to example 3 from cyclobutylamine and 2-(4-chloro-2-formyl-phenoxy)-butyric acid (prepared in analogy to 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid [example 1] from ethyl 2-bromo-n-butyrate and 5-chlorosalicylaldehyde) as a mixture of diastereomers.

25

Example 9

7-Chloro-4-cyclopentyl-2-ethyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

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The title compound, MS: $m/e = 419.4$ ($M+H^+$), was obtained in analogy to example 3 from cyclopentylamine and 2-(4-chloro-2-formyl-phenoxy)-butyric acid (prepared in analogy to 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyl-ic acid [example 1] from ethyl 2-bromo-n-butyl-ate and 5-chlorosalicylaldehyde) as two separable diastereomers
5 (both inhibitorily active).

Example 10

7-Chloro-2-ethyl-3-oxo-4-(tetrahydro-pyran-4-yl)-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS: $m/e = 435.4$ ($M+H^+$), was obtained in analogy to example 3
10 from 4-aminotetrahydropyran and 2-(4-chloro-2-formyl-phenoxy)-butyl-ic acid (prepared in analogy to 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyl-ic acid [example 1] from ethyl 2-bromo-n-butyl-ate and 5-chlorosalicylaldehyde) as two separable diastereomers (both inhibitorily active).

Example 11

15 7-Chloro-2-ethyl-3-oxo-4-(3-trifluoromethyl-benzyl)-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS: $m/e = 509.3$ ($M+H^+$), was obtained in analogy to example 3 from 3-trifluorobenzylamine and 2-(4-chloro-2-formyl-phenoxy)-butyl-ic acid (prepared in analogy to 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyl-ic acid [example 1] from
20 ethyl 2-bromo-n-butyl-ate and 5-chlorosalicylaldehyde) as two separable diastereomers (both inhibitorially active).

Example 12

7-Chloro-4-(2,6-difluoro-benzyl)-2-ethyl-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

25 The title compound, MS: $m/e = 451.3$ ($M+H^+$), was obtained in analogy to example 3 from 2,6-difluorobenzylamine, *tert*-butylisocyanide, and 2-(4-chloro-2-formyl-phenoxy)-butyl-ic acid (prepared in analogy to 2-(4-Bromo-2-formyl-phenoxy)-3-methyl-butyl-ic acid [example 1] from ethyl 2-bromo-n-butyl-ate and 5-chlorosalicylaldehyde) as two separable diastereomers (both inhibitorially active).

30

Example 13

7-Chloro-4-cyclohexyl-2-ethyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-
carboxylic acid tert-butylamide

The title compound, MS: $m/e = 407.4$ ($M+H^+$), was obtained in analogy to example 3 from cyclohexylamine, *tert*-Butylisocyanide, and 2-(4-chloro-2-formyl-phenoxy)-butyric acid (prepared in analogy to 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid [example 1] from ethyl 2-bromo-*n*-butyrate and 5-chlorosalicylaldehyde) as two
5 separable diastereomers (both inhibitorily active).

Example 14

7-Chloro-4-(2-chloro-benzyl)-2-ethyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid *tert*-butylamide

The title compound, MS: $m/e = 449.3$ ($M+H^+$), was obtained in analogy to example 3
10 from 2-chlorobenzylamine, *tert*-butylisocyanide, and 2-(4-chloro-2-formyl-phenoxy)-butyric acid (prepared in analogy to 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid [example 1] from ethyl 2-bromo-*n*-butyrate and 5-chlorosalicylaldehyde) as two separable diastereomers (both inhibitorily active).

Example 15

15 7-Chloro-4-cyclobutyl-2-ethyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid *tert*-butylamide

The title compound, MS: $m/e = 379.3$ ($M+H^+$), was obtained in analogy to example 3 from cyclobutylamine, *tert*-Butylisocyanide, and 2-(4-chloro-2-formyl-phenoxy)-butyric acid (prepared in analogy to 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid
20 [example 1] from ethyl 2-bromo-*n*-butyrate and 5-chlorosalicylaldehyde).

Example 16

7-Chloro-4-cyclopentyl-2-ethyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid *tert*-butylamide

The title compound MS: $m/e = 393.3$ ($M+H^+$), was obtained in analogy to example 3
25 from cyclopentylamine, *tert*-Butylisocyanide, and 2-(4-chloro-2-formyl-phenoxy)-butyric acid (prepared in analogy to 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid [example 1] from ethyl 2-bromo-*n*-butyrate and 5-chlorosalicylaldehyde) as two separable diastereomers (both inhibitorily active).

Example 17

30 7-Chloro-2-ethyl-3-oxo-4-(tetrahydro-pyran-4-yl)-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid *tert*-butylamide

The title compound, MS: $m/e = 409.3$ ($M+H^+$), was obtained in analogy to example 3 from 4-aminotetrahydropyran, *tert*-Butylisocyanide, and 2-(4-chloro-2-formyl-phenoxy)-butyric acid (prepared in analogy to 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid [example 1] from ethyl 2-bromo-*n*-butyrate and 5-chlorosalicylaldehyde).

Example 18

7-Chloro-2-ethyl-3-oxo-4-(3-trifluoromethyl-benzyl)-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid *tert*-butylamide

The title compound, MS: $m/e = 483.5$ ($M+H^+$), was obtained in analogy to example 3 from 3-trifluoromethylbenzylamine, *tert*-butylisocyanide, and 2-(4-chloro-2-formyl-phenoxy)-butyric acid (prepared in analogy to 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid [example 1] from ethyl 2-bromo-*n*-butyrate and 5-chlorosalicylaldehyde) as a mixture of diastereomers.

Example 19

{[7-Chloro-4-(2,6-difluoro-benzyl)-2-ethyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carbonyl]-amino}-acetic acid *tert*-butyl ester

The title compound, MS: $m/e = 509.3$ ($M+H^+$), was obtained in analogy to example 3 from 2,6-difluorobenzylamine, Isocyano-acetic acid *tert*-butyl ester, and 2-(4-chloro-2-formyl-phenoxy)-butyric acid (prepared in analogy to 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid [example 1] from ethyl 2-bromo-*n*-butyrate and 5-chlorosalicylaldehyde).

Example 20

[(7-Chloro-4-cyclohexyl-2-ethyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carbonyl)-amino]-acetic acid *tert*-butyl ester

The title compound MS: $m/e = 465.3$ ($M+H^+$), was obtained in analogy to example 3 from cyclohexylamine, Isocyano-acetic acid *tert*-butyl ester, and 2-(4-chloro-2-formyl-phenoxy)-butyric acid (prepared in analogy to 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid [example 1] from ethyl 2-bromo-*n*-butyrate and 5-chlorosalicylaldehyde) as a mixture of diastereomers.

Example 21

[(7-Chloro-4-cyclobutyl-2-ethyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carbonyl)-amino]-acetic acid *tert*-butyl ester

The title compound, MS: $m/e = 437.3$ ($M+H^+$), was obtained in analogy to example 3 from cyclobutylamine, Isocyano-acetic acid tert-butyl ester, and 2-(4-chloro-2-formyl-phenoxy)-butyric acid (prepared in analogy to 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid [example 1] from ethyl 2-bromo-n-butyrate and 5-chlorosalicylaldehyde) as a mixture of diastereomers.

Example 22

[(7-Chloro-4-cyclopentyl-2-ethyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carbonyl)-amino]-acetic acid tert-butyl ester

The title compound, MS: $m/e = 451.4$ ($M+H^+$), was obtained in analogy to example 3 from cyclopentylamine, Isocyano-acetic acid tert-butyl ester, and 2-(4-chloro-2-formyl-phenoxy)-butyric acid (prepared in analogy to 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid [example 1] from ethyl 2-bromo-n-butyrate and 5-chlorosalicylaldehyde).

Example 23

7-Chloro-4-(2,6-difluoro-benzyl)-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e : 449.14 ($M+1$), was obtained in analogy to example 3 from 2,6-difluorobenzylamine, (4-chloro-2-formyl-phenoxy)-acetic acid, and Isocyano-cyclohexane.

Example 24

4-(2,6-Difluoro-benzyl)-6,8-dimethoxy-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

The title compound, MS m/e : 449.18 ($M+1$), was obtained in analogy to example 3 from 2,6-difluorobenzylamine, (2-formyl-3,5-dimethoxy-phenoxy)-acetic acid, and 2-Isocyano-2-methyl-propane.

Example 25

6,8-Dimethoxy-3-oxo-4-(1,2,3,4-tetrahydro-naphthalen-1-yl)-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e : 479.25 ($M+1$), was obtained in analogy to example 3 from 1,2,3,4-tetrahydro-naphthalen-1-ylamine, (2-formyl-3,5-dimethoxy-phenoxy)-acetic acid, and Isocyano-cyclohexane.

Example 26

7-Chloro-4-(4-chloro-2-fluoro-benzyl)-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 465.1 (M+1), was obtained in analogy to example 3
5 from 4-chloro-2-fluorobenzylamine, (4-chloro-2-formyl-phenoxy)-acetic acid, and
isocyano-cyclohexane.

Example 27

4-(2,6-Difluoro-benzyl)-2-isopropyl-8-methoxy-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

10 The title compound, MS m/e: 461.2 (M+1), was obtained in analogy to example 3
from 2,6-difluorobenzylamine, 2-(2-formyl-5-methoxy-phenoxy)-3-methyl-butyric acid,
and 2-isocyano-2-methyl-propane.

Example 28

2-Isopropyl-8-methoxy-3-oxo-4-(3-trifluoromethyl-benzyl)-2,3,4,5-tetrahydro-
15 benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

The title compound, MS m/e: 493.2 (M+1), was obtained in analogy to example 3
from 3-trifluoromethylbenzylamine, 2-(2-formyl-5-methoxy-phenoxy)-3-methyl-butyric
acid, and 2-isocyano-2-methyl-propane.

Example 29

20 4-[2-(5-Fluoro-1H-indol-3-yl)-1-methyl-ethyl]-2-isopropyl-8-methoxy-3-oxo-2,3,4,5-
tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

The title compound, MS m/e: 510.3 (M+1), was obtained in analogy to example 3
from 2-(5-fluoro-1H-indol-3-yl)-1-methyl-ethylamine, 2-(2-formyl-5-methoxy-
phenoxy)-3-methyl-butyric acid, and 2-isocyano-2-methyl-propane.

Example 30

25 4-(4-Dimethylamino-benzyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid butylamide

The title compound, MS m/e: 438.3 (M+1), was obtained in analogy to example 3
from 4-dimethylaminobenzylamine, 2-(2-formyl-phenoxy)-3-methyl-butyric acid, and
30 1-isocyano-butane

Example 31

2-Isopropyl-4-[2-(5-nitro-pyridin-2-ylamino)-ethyl]-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 496.2 (M+1), was obtained in analogy to example 3 from
5 2-(5-nitro-pyridin-2-ylamino)-ethylamine, 2-(2-formyl-phenoxy)-3-methyl-butyric acid, and isocyano-cyclohexane.

Example 32

7-Bromo-4-(9H-fluoren-9-yl)-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

10 The title compound, MS m/e: 505.1 (M+1), was obtained in analogy to example 3 from 9H-fluoren-9-ylamine, (4-bromo-2-formyl-phenoxy)-acetic acid, and 2-isocyano-2-methyl-propane.

Example 33

15 8-Diethylamino-4-(9H-fluoren-9-yl)-2-methyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

The title compound, MS m/e: 512.3 (M+1), was obtained in analogy to example 3 from 9H-fluoren-9-ylamine, 2-(5-diethylamino-2-formyl-phenoxy)-propionic acid, and 2-isocyano-2-methyl-propane.

Example 34

20 7-Chloro-4-(2,6-difluoro-benzyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

The title compound, MS m/e: 465.2 (M+1), was obtained in analogy to example 3 from 2,6-difluorobenzylamine, 2-(4-chloro-2-formyl-phenoxy)-3-methyl-butyric acid, and 2-isocyano-2-methyl-propane.

25

Example 35

7-Chloro-4-(2,6-difluoro-benzyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 491.2 (M+1), was obtained in analogy to example 3 from 2,6-difluorobenzylamine, 2-(4-chloro-2-formyl-phenoxy)-3-methyl-butyric acid,
30 and isocyano-cyclohexane.

Example 36

7-Chloro-4-(4-dimethylamino-benzyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid butylamide

The title compound, MS m/e: 472.2 (M+1), was obtained in analogy to example 3
5 from 4-dimethylaminobenzylamine, 2-(4-chloro-2-formyl-phenoxy)-3-methyl-butyric acid, and 1-isocyano-butane.

Example 37

7-Chloro-2-isopropyl-4-(2-methylsulfanyl-ethyl)-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

10 The title compound, MS m/e: 439.2 (M+1), was obtained in analogy to example 3 from 2-methylsulfanyl-ethylamine, 2-(4-chloro-2-formyl-phenoxy)-3-methyl-butyric acid, and isocyano-cyclohexane.

Example 38

15 7-Chloro-4-[2-(1H-indol-3-yl)-ethyl]-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

The title compound, MS m/e: 482.2 (M+1), was obtained in analogy to example 3 from 2-(1H-indol-3-yl)-ethylamine, 2-(4-chloro-2-formyl-phenoxy)-3-methyl-butyric acid, and 2-isocyano-2-methyl-propane.

Example 39

20 7,9-Dichloro-4-(2,6-difluoro-benzyl)-2-methyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 497.11 (M+1), was obtained in analogy to example 3 from 2,6-difluorobenzylamine, 2-(2,4-dichloro-6-formyl-phenoxy)-propionic acid, and Isocyano-cyclohexane.

25

Example 40

7-Bromo-4-(2,6-difluoro-benzyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

The title compound, MS m/e: 509.12 (M+1), was obtained in analogy to example 3 from 2,6-difluorobenzylamine, 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid,
30 and 2-isocyano-2-methyl-propane.

Example 41

7-Bromo-4-(2-chloro-benzyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 533.2 (M+1), was obtained in analogy to example 3 from
5 2-chlorobenzylamine, 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid, and
isocyano-cyclohexane.

Example 42

4-(4-Chloro-2-fluoro-benzyl)-8-diethylamino-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid benzylamide

10 The title compound, MS m/e: 552.4 (M+1), was obtained in analogy to example 3
from 4-chloro-2-fluorobenzylamine, 2-(5-diethylamino-2-formyl-phenoxy)-3-methyl-
butyric acid, and isocyanomethyl-benzene.

Example 43

7-Bromo-4-(2,6-difluoro-benzyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-
15 benzo[f][1,4]oxazepine-5-carboxylic acid butylamide

The title compound, MS m/e: 509.1 (M+1), was obtained in analogy to example 3
from 2,6-difluorobenzylamine, 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid,
and 1-isocyano-butane.

Example 44

20 7-Bromo-4-cyclohexyl-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-
carboxylic acid tert-butylamide

The title compound, MS m/e: 487.2 (M+23), was obtained in analogy to example 3
from cyclohexylamine, 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid, and 2-
isocyano-2-methyl-propane.

25

Example 45

7-Bromo-2-isopropyl-3-oxo-4-(3-trifluoromethyl-benzyl)-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 567.2 (M+1), was obtained in analogy to example 3
from 3-trifluoromethylbenzylamine, 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric
30 acid, and isocyano-cyclohexane.

Example 46

4-(1-Benzyl-piperidin-4-yl)-7-bromo-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid butylamide

- The title compound, MS m/e: 556.21 (M+1), was obtained in analogy to example 3
5 from 1-benzyl-piperidin-4-ylamine, 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid, and 1-isocyano-butane.

Example 47

7,9-Dichloro-2-methyl-3-oxo-4-(1,2,3,4-tetrahydro-naphthalen-1-yl)-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

- 10 The title compound, MS m/e: 497.15 (M+23), was obtained in analogy to example 3 from 1,2,3,4-tetrahydro-naphthalen-1-ylamine, 2-(2,4-dichloro-6-formyl-phenoxy)-propionic acid, and 2-isocyano-2-methyl-propane.

Example 48

- 15 7-Bromo-2-isopropyl-3-oxo-4-(1,2,3,4-tetrahydro-naphthalen-1-yl)-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

The title compound, MS m/e: 535.17 (M+23), was obtained in analogy to example 3 from 1,2,3,4-tetrahydro-naphthalen-1-ylamine, 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid, and 2-isocyano-2-methyl-propane.

Example 49

- 20 7-Bromo-4-(1-carbamoyl-2-phenyl-ethyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 556.17 (M+1), was obtained in analogy to example 3 from 2-amino-3-phenyl-propionamide, 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid, and isocyano-cyclohexane.

25

Example 50

7-Bromo-2-isopropyl-3-oxo-4-(1,2,3,4-tetrahydro-naphthalen-1-yl)-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid butylamide

- The title compound, MS m/e: 535.17 (M+23), was obtained in analogy to example 3 from 1,2,3,4-tetrahydro-naphthalen-1-ylamine, 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid, and 1-isocyano-butane.
30

Example 51

7-Bromo-2-isopropyl-3-oxo-4-pyridin-3-ylmethyl-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

The title compound, MS m/e: 474.13 (M+1), was obtained in analogy to example 3
from pyridin-3-yl-methylamine, 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid,
and 2-isocyano-2-methyl-propane.

Example 52

7-Bromo-2-isopropyl-3-oxo-4-pyridin-3-ylmethyl-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 500.15 (M+1), was obtained in analogy to example 3
from pyridin-3-yl-methylamine, 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid,
and isocyano-cyclohexane.

Example 53

7-Bromo-2-isopropyl-3-oxo-4-pyridin-3-ylmethyl-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid butylamide

The title compound, MS m/e: 474.13 (M+1), was obtained in analogy to example 3
from pyridin-3-yl-methylamine, 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid,
and 1-isocyano-butane.

Example 54

7-Bromo-4-[2-(1H-indol-3-yl)-ethyl]-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

The title compound, MS m/e: 526.16 (M+1), was obtained in analogy to example 3
from 2-(1H-indol-3-yl)-ethylamine, 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric
acid, and 2-isocyano-2-methyl-propane.

Example 55

7-Bromo-2-isopropyl-3-oxo-4-(2,2,2-trifluoro-ethyl)-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 491.11 (M+1), was obtained in analogy to example 3
from 2,2,2-trifluoroethylamine, 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid,
and isocyano-cyclohexane.

Example 56

7-Bromo-4-[2-(1H-indol-3-yl)-ethyl]-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid butylamide

The title compound, MS m/e: 526.16 (M+1), was obtained in analogy to example 3
5 from 2-(1H-indol-3-yl)-ethylamine, 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid, and 1-isocyano-butane.

Example 57

7-Bromo-4-[2-(5-fluoro-1H-indol-3-yl)-1-methyl-ethyl]-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

10 The title compound, MS m/e: 580.2 (M+23), was obtained in analogy to example 3 from 2-(5-fluoro-1H-indol-3-yl)-1-methyl-ethylamine, 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid, and 2-isocyano-2-methyl-propane.

Example 58

15 4-Cyclohexyl-2-isopropyl-8-methoxy-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

The title compound, MS m/e: 417.27 (M+1), was obtained in analogy to example 3 from cyclohexylamine, 2-(2-formyl-5-methoxy-phenoxy)-3-methyl-butyric acid, and 2-isocyano-2-methyl-propane.

Example 59

20 4-(3,5-Dichloro-benzyl)-2-isopropyl-8-methoxy-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 541.17 (M+23), was obtained in analogy to example 3 from 3,5-dichlorobenzylamine, 2-(2-formyl-5-methoxy-phenoxy)-3-methyl-butyric acid, and isocyano-cyclohexane.

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Example 60

4-(2-Chloro-benzyl)-2-isopropyl-8-methoxy-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

RO4The title compound, MS m/e: 485.22 (M+1), was obtained in analogy to example 3 from 2-chlorobenzylamine, 2-(2-formyl-5-methoxy-phenoxy)-3-methyl-butyric acid,
30 and isocyano-cyclohexane.

Example 61

4-(2,6-Difluoro-benzyl)-2-isopropyl-8-methoxy-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 487.23 (M+1), was obtained in analogy to example 3
5 from 2,6-difluorobenzylamine, 2-(2-formyl-5-methoxy-phenoxy)-3-methyl-butyric acid,
and isocyano-cyclohexane.

Example 62

2-Isopropyl-8-methoxy-3-oxo-4-(3-trifluoromethyl-benzyl)-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid butylamide

10 The title compound, MS m/e: 493.22 (M+1), was obtained in analogy to example 3
from 3-trifluoromethylbenzylamine, 2-(2-formyl-5-methoxy-phenoxy)-3-methyl-butyric
acid, and 1-isocyano-butane.

Example 63

4-(1-Benzyl-piperidin-4-yl)-2-isopropyl-8-methoxy-3-oxo-2,3,4,5-tetrahydro-
15 benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

The title compound, MS m/e: 508.31 (M+1), was obtained in analogy to example 3
from 1-benzyl-piperidin-4-ylamine, 2-(2-formyl-5-methoxy-phenoxy)-3-methyl-butyric
acid, and 2-isocyano-2-methyl-propane.

Example 64

20 4-(1-Benzyl-piperidin-4-yl)-2-isopropyl-8-methoxy-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 534.33 (M+1), was obtained in analogy to example 3
from 1-benzyl-piperidin-4-ylamine, 2-(2-formyl-5-methoxy-phenoxy)-3-methyl-butyric
acid, and isocyano-cyclohexane.

25

Example 65

4-(1-Benzyl-piperidin-4-yl)-2-isopropyl-8-methoxy-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid butylamide

The title compound, MS m/e: 508.31 (M+1), was obtained in analogy to example 3
from 1-benzyl-piperidin-4-ylamine, 2-(2-formyl-5-methoxy-phenoxy)-3-methyl-butyric
30 acid, and 1-isocyano-butane.

Example 66

2-Isopropyl-8-methoxy-3-oxo-4-(1,2,3,4-tetrahydro-naphthalen-1-yl)-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

The title compound, MS m/e: 487.27 (M+23), was obtained in analogy to example 3 from 1,2,3,4-tetrahydro-naphthalen-1-ylamine, 2-(2-formyl-5-methoxy-phenoxy)-3-methyl-butyric acid, and 2-isocyano-2-methyl-propane.

Example 67

2-Isopropyl-8-methoxy-3-oxo-4-(1,2,3,4-tetrahydro-naphthalen-1-yl)-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 513.28 (M+23), was obtained in analogy to example 3 from 1,2,3,4-tetrahydro-naphthalen-1-ylamine, 2-(2-formyl-5-methoxy-phenoxy)-3-methyl-butyric acid, and isocyano-cyclohexane.

Example 68

2-Isopropyl-8-methoxy-3-oxo-4-(1,2,3,4-tetrahydro-naphthalen-1-yl)-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid butylamide

The title compound, MS m/e: 465.27 (M+1), was obtained in analogy to example 3 from 1,2,3,4-tetrahydro-naphthalen-1-ylamine, 2-(2-formyl-5-methoxy-phenoxy)-3-methyl-butyric acid, and 1-isocyano-butane.

Example 69

2-Isopropyl-8-methoxy-3-oxo-4-pyridin-3-ylmethyl-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

The title compound, MS m/e: 426.23 (M+1), was obtained in analogy to example 3 from pyridin-3-yl-methylamine, 2-(2-formyl-5-methoxy-phenoxy)-3-methyl-butyric acid, and 2-isocyano-2-methyl-propane.

Example 70

4-Benzo[1,3]dioxol-5-ylmethyl-2-isopropyl-8-methoxy-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

The title compound, MS m/e: 469.23 (M+1), was obtained in analogy to example 3 from benzo[1,3]dioxol-5-yl-methylamine, 2-(2-formyl-5-methoxy-phenoxy)-3-methyl-butyric acid, and 2-isocyano-2-methyl-propane.

Example 71

2-Isopropyl-8-methoxy-3-oxo-4-pyridin-3-ylmethyl-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 452.25 (M+1), was obtained in analogy to example 3
5 from pyridin-3-yl-methylamine, 2-(2-formyl-5-methoxy-phenoxy)-3-methyl-butyric
acid, and isocyano-cyclohexane.

Example 72

4-Benzo[1,3]dioxol-5-ylmethyl-2-isopropyl-8-methoxy-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

10 The title compound, MS m/e: 495.24 (M+1), was obtained in analogy to example 3
from benzo[1,3]dioxol-5-yl-methylamine, 2-(2-formyl-5-methoxy-phenoxy)-3-methyl-
butyric acid, and isocyano-cyclohexane.

Example 73

4-[2-(1H-Indol-3-yl)-ethyl]-2-isopropyl-8-methoxy-3-oxo-2,3,4,5-tetrahydro-
15 benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

The title compound, MS m/e: 478.26 (M+1), was obtained in analogy to example 3
from 2-(1H-indol-3-yl)-ethylamine, 2-(2-formyl-5-methoxy-phenoxy)-3-methyl-butyric
acid, and 2-isocyano-2-methyl-propane.

Example 74

20 4-[2-(1H-Indol-3-yl)-ethyl]-2-isopropyl-8-methoxy-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 504.28 (M+1), was obtained in analogy to example 3
from 2-(1H-indol-3-yl)-ethylamine, 2-(2-formyl-5-methoxy-phenoxy)-3-methyl-butyric
acid, and isocyano-cyclohexane.

25

Example 75

4-(2,6-Difluoro-benzyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-
5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 457.22 (M+1), was obtained in analogy to example 3
from 2,6-difluorobenzylamine, 2-(2-formyl-phenoxy)-3-methyl-butyric acid, and
30 isocyano-cyclohexane.

Example 76

4-(1-Benzyl-piperidin-4-yl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

The title compound, MS m/e: 478.3 (M+1), was obtained in analogy to example 3
5 from 1-benzyl-piperidin-4-ylamine, 2-(2-formyl-phenoxy)-3-methyl-butyric acid, and 2-
isocyano-2-methyl-propane.

Example 77

4-(1-Benzyl-piperidin-4-yl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

10 The title compound, MS m/e: 504.32 (M+1), was obtained in analogy to example 3
from 1-benzyl-piperidin-4-ylamine, 2-(2-formyl-phenoxy)-3-methyl-butyric acid, and
isocyano-cyclohexane.

Example 78

2-Isopropyl-3-oxo-4-pyridin-3-ylmethyl-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-
15 carboxylic acid tert-butylamide

The title compound, MS m/e: 396.22 (M+1), was obtained in analogy to example 3
from pyridin-3-yl-methylamine, 2-(2-formyl-phenoxy)-3-methyl-butyric acid, and 2-
isocyano-2-methyl-propane.

Example 79

20 2-Isopropyl-3-oxo-4-pyridin-3-ylmethyl-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-
carboxylic acid cyclohexylamide

The title compound, MS m/e: 422.24 (M+1), was obtained in analogy to example 3
from pyridin-3-yl-methylamine, 2-(2-formyl-phenoxy)-3-methyl-butyric acid, and
isocyano-cyclohexane.

25

Example 80

4-(3-Dimethylamino-2,2-dimethyl-propyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 444.32 (M+1), was obtained in analogy to example 3
from 2,2,N',N'-tetramethyl-propane-1,3-diamine, 2-(2-formyl-phenoxy)-3-methyl-
30 butyric acid, and isocyano-cyclohexane.

Example 81

4-[2-(1H-Indol-3-yl)-ethyl]-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

The title compound, MS m/e: 448.25 (M+1), was obtained in analogy to example 3
5 from 2-(1H-indol-3-yl)-ethylamine, 2-(2-formyl-phenoxy)-3-methyl-butyric acid, and
2-isocyano-2-methyl-propane.

Example 82

4-[2-(1H-Indol-3-yl)-ethyl]-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid butylamide

10 The title compound, MS m/e: 448.25 (M+1), was obtained in analogy to example 3
from 2-(1H-indol-3-yl)-ethylamine, 2-(2-formyl-phenoxy)-3-methyl-butyric acid, and
1-isocyano-butane.

Example 83

2-Isopropyl-4-[2-(5-methoxy-1H-indol-3-yl)-ethyl]-3-oxo-2,3,4,5-tetrahydro-
15 benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

The title compound, MS m/e: 478.26 (M+1), was obtained in analogy to example 3
from 2-(5-methoxy-1H-indol-3-yl)-ethylamine, 2-(2-formyl-phenoxy)-3-methyl-butyric
acid, and 2-isocyano-2-methyl-propane.

Example 84

20 2-Isopropyl-4-[2-(5-methoxy-1H-indol-3-yl)-ethyl]-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 504.28 (M+1), was obtained in analogy to example 3
from 2-(5-methoxy-1H-indol-3-yl)-ethylamine, 2-(2-formyl-phenoxy)-3-methyl-butyric
acid, and isocyano-cyclohexane.

25

Example 85

7-Chloro-4-(2-chloro-benzyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 489.16 (M+1), was obtained in analogy to example 3
from 2-chlorobenzylamine, 2-(4-chloro-2-formyl-phenoxy)-3-methyl-butyric acid, and
30 isocyano-cyclohexane.

Example 86

7-Chloro-2-isopropyl-3-oxo-4-(1,2,3,4-tetrahydro-naphthalen-1-yl)-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamid

The title compound, MS m/e: 517.3943 (M+23), was obtained in analogy to example 3
5 from 1,2,3,4-tetrahydro-naphthalen-1-ylamine, 2-(4-chloro-2-formyl-phenoxy)-3-methyl-butyric acid, and isocyano-cyclohexane.

Example 87

4-(2-Benzylsulfanyl-ethyl)-7-chloro-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

10 The title compound, MS m/e: 537.2 (M+23), was obtained in analogy to example 3 from 2-benzylsulfanyl-ethylamine, 2-(4-chloro-2-formyl-phenoxy)-3-methyl-butyric acid, and isocyano-cyclohexane.

Example 88

7-Chloro-2-isopropyl-3-oxo-4-pyridin-3-ylmethyl-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide
15

The title compound, MS m/e: 430.18 (M+1), was obtained in analogy to example 3 from pyridin-3-yl-methylamine, 2-(4-chloro-2-formyl-phenoxy)-3-methyl-butyric acid, and 2-isocyano-2-methyl-propane.

Example 89

20 7-Chloro-2-isopropyl-3-oxo-4-pyridin-3-ylmethyl-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 456.2 (M+1), was obtained in analogy to example 3 from pyridin-3-yl-methylamine, 2-(4-chloro-2-formyl-phenoxy)-3-methyl-butyric acid, and isocyano-cyclohexane.

Example 90

25 7-Chloro-2-isopropyl-3-oxo-4-pyridin-3-ylmethyl-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid butylamide

The title compound, MS m/e: 430.18 (M+1), was obtained in analogy to example 3 from pyridin-3-yl-methylamine, 2-(4-chloro-2-formyl-phenoxy)-3-methyl-butyric acid,
30 and 1-isocyano-butane.

Example 91

7-Chloro-4-(3-diethylamino-propyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 478.28 (M+1), was obtained in analogy to example 3
5 from N',N'-diethyl-propane-1,3-diamine, 2-(4-chloro-2-formyl-phenoxy)-3-methyl-butyrac acid, and isocyano-cyclohexane.

Example 92

7-Chloro-2-isopropyl-4-[2-(5-methoxy-1H-indol-3-yl)-ethyl]-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

10 The title compound, MS m/e: 538.24 (M+1), was obtained in analogy to example 3 from 2-(5-methoxy-1H-indol-3-yl)-ethylamine, 2-(4-chloro-2-formyl-phenoxy)-3-methyl-butyrac acid, and isocyano-cyclohexane.

Example 93

15 4-(4-Chloro-2-fluoro-benzyl)-7-methoxy-3-oxo-2-phenyl-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

The title compound, MS m/e: 511.17 (M+1), was obtained in analogy to example 3 from 4-chloro-2-fluorobenzylamine, (2-formyl-4-methoxy-phenoxy)-phenyl-acetic acid, and 2-isocyano-2-methyl-propane.

Example 94

20 7-Chloro-4-[2-(1H-indol-3-yl)-ethyl]-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid butylamide

The title compound, MS m/e: 482.21 (M+1), was obtained in analogy to example 3 from 2-(1H-indol-3-yl)-ethylamine, 2-(4-chloro-2-formyl-phenoxy)-3-methyl-butyrac acid, and 1-isocyano-butane.

25

Example 95

7-Chloro-2-isopropyl-4-[2-(5-methoxy-1H-indol-3-yl)-ethyl]-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

The title compound, MS m/e: 512.22 (M+1), was obtained in analogy to example 3 from 2-(5-methoxy-1H-indol-3-yl)-ethylamine, 2-(4-chloro-2-formyl-phenoxy)-3-
30 methyl-butyrac acid, and 2-isocyano-2-methyl-propane.

Example 96

7-Chloro-4-(4-chloro-2-fluoro-benzyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 507.15 (M+1), was obtained in analogy to example 3
5 from 4-chloro-2-fluorobenzylamine, 2-(4-chloro-2-formyl-phenoxy)-3-methyl-butyric acid, and isocyano-cyclohexane.

Example 97

7,9-Dichloro-4-(4-chloro-2-fluoro-benzyl)-2-methyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

10 The title compound, MS m/e: 513.08 (M+1), was obtained in analogy to example 3 from 4-chloro-2-fluorobenzylamine, 2-(2,4-dichloro-6-formyl-phenoxy)-propionic acid, and isocyano-cyclohexane.

Example 98

4-(9H-Fluoren-9-yl)-7-methoxy-2-methyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide
15

The title compound, MS m/e: 497.24 (M+1), was obtained in analogy to example 3 from 9H-fluoren-9-ylamine, 2-(2-formyl-4-methoxy-phenoxy)-propionic acid, and isocyano-cyclohexane.

Example 99

20 4-(3,5-Dichloro-benzyl)-8-diethylamino-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

The title compound, MS m/e: 534.22 (M+1), was obtained in analogy to example 3 from 3,5-dichlorobenzylamine, 2-(5-diethylamino-2-formyl-phenoxy)-3-methyl-butyric acid, and 2-isocyano-2-methyl-propane.

25

Example 100

4-(3,5-Dichloro-benzyl)-8-diethylamino-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 560.24 (M+1), was obtained in analogy to example 3 from 3,5-dichlorobenzylamine, 2-(5-diethylamino-2-formyl-phenoxy)-3-methyl-butyric
30 acid, and isocyano-cyclohexane.

Example 101

8-Diethylamino-2-isopropyl-3-oxo-4-(3-trifluoromethyl-benzyl)-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 560.3 (M+1), was obtained in analogy to example 3
5 from 3-trifluoromethylbenzylamine, 2-(5-diethylamino-2-formyl-phenoxy)-3-methyl-butyrac acid, and isocyano-cyclohexane.

Example 102

8-Diethylamino-4-[2-(1H-indol-3-yl)-ethyl]-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

10 The title compound, MS m/e: 545.34 (M+1), was obtained in analogy to example 3 from 2-(1H-indol-3-yl)-ethylamine, 2-(5-diethylamino-2-formyl-phenoxy)-3-methyl-butyrac acid, and isocyano-cyclohexane.

Example 103

15 4-(4-Dimethylamino-benzyl)-2-isopropyl-8-methoxy-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 494.29 (M+1), was obtained in analogy to example 3 from 4-dimethylaminobenzylamine, 2-(2-formyl-5-methoxy-phenoxy)-3-methyl-butyrac acid, and isocyano-cyclohexane.

Example 104

20 4-(2-Chloro-benzyl)-8-diethylamino-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

The title compound, MS m/e: 500.3 (M+1), was obtained in analogy to example 3 from 2-chlorobenzylamine, 2-(5-diethylamino-2-formyl-phenoxy)-3-methyl-butyrac acid, and 2-isocyano-2-methyl-propane.

25 Example 105

8-Diethylamino-4-(2,6-difluoro-benzyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

The title compound, MS m/e: 502.3 (M+1), was obtained in analogy to example 3 from 2,6-difluorobenzylamine, 2-(5-diethylamino-2-formyl-phenoxy)-3-methyl-butyrac
30 acid, and 2-isocyano-2-methyl-propane.

Example 106

4-(2-Chloro-benzyl)-8-diethylamino-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 526.4 (M+1), was obtained in analogy to example 3
5 from 2-chlorobenzylamine, 2-(5-diethylamino-2-formyl-phenoxy)-3-methyl-butyric
acid, and isocyano-cyclohexane.

Example 107

8-Diethylamino-4-(2,6-difluoro-benzyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

10 The title compound, MS m/e: 528.4 (M+1), was obtained in analogy to example 3
from 2,6-difluorobenzylamine, 2-(5-diethylamino-2-formyl-phenoxy)-3-methyl-butyric
acid, and isocyano-cyclohexane.

Example 108

4-(2-Chloro-benzyl)-8-diethylamino-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-
15 benzo[f][1,4]oxazepine-5-carboxylic acid butylamide

The title compound, MS m/e: 500.4 (M+1), was obtained in analogy to example 3
from 2-chlorobenzylamine, 2-(5-diethylamino-2-formyl-phenoxy)-3-methyl-butyric
acid, and 1-isocyano-butane.

Example 109

20 8-Diethylamino-4-(2,6-difluoro-benzyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid butylamide

The title compound, MS m/e: 502.4 (M+1), was obtained in analogy to example 3
from 2,6-difluorobenzylamine, 2-(5-diethylamino-2-formyl-phenoxy)-3-methyl-butyric
acid, and 1-isocyano-butane.

25

Example 110

4-Cyclohexyl-8-diethylamino-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

The title compound, MS m/e: 458.4 (M+1), was obtained in analogy to example 3 from
cyclohexylamine, 2-(5-diethylamino-2-formyl-phenoxy)-3-methyl-butyric acid, and 2-
30 isocyano-2-methyl-propane.

Example 111

8-Diethylamino-2-isopropyl-3-oxo-4-(3-trifluoromethyl-benzyl)-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

The title compound, MS m/e: 534.4 (M+1), was obtained in analogy to example 3 from
5 3-trifluoromethylbenzylamine, 2-(5-diethylamino-2-formyl-phenoxy)-3-methyl-butyric acid, and 2-isocyano-2-methyl-propane.

Example 112

8-Diethylamino-2-isopropyl-3-oxo-4-(3-trifluoromethyl-benzyl)-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid butylamide

10 The title compound, MS m/e: 534.4 (M+1), was obtained in analogy to example 3 from 3-trifluoromethylbenzylamine, 2-(5-diethylamino-2-formyl-phenoxy)-3-methyl-butyric acid, and 1-isocyano-butane.

Example 113

4-(1-Benzyl-piperidin-4-yl)-8-diethylamino-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-
15 benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

The title compound, MS m/e: 549.4 (M+1), was obtained in analogy to example 3 from 1-benzyl-piperidin-4-ylamine, 2-(5-diethylamino-2-formyl-phenoxy)-3-methyl-butyric acid, and 2-isocyano-2-methyl-propane.

Example 114

20 8-Diethylamino-2-isopropyl-3-oxo-4-(1,2,3,4-tetrahydro-naphthalen-1-yl)-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

The title compound, MS m/e: 506.4 (M+1), was obtained in analogy to example 3 from 1,2,3,4-tetrahydro-naphthalen-1-ylamine, 2-(5-diethylamino-2-formyl-phenoxy)-3-methyl-butyric acid, and 2-isocyano-2-methyl-propane.

25 Example 115

8-Diethylamino-2-isopropyl-3-oxo-4-(1,2,3,4-tetrahydro-naphthalen-1-yl)-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 532.4 (M+1), was obtained in analogy to example 3 from 1,2,3,4-tetrahydro-naphthalen-1-ylamine, 2-(5-diethylamino-2-formyl-phenoxy)-
30 3-methyl-butyric acid, and isocyano-cyclohexane.

Example 116

8-Diethylamino-2-isopropyl-3-oxo-4-(1,2,3,4-tetrahydro-naphthalen-1-yl)-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid butylamide

The title compound, MS m/e: 506.4 (M+1), was obtained in analogy to example 3
5 from 1,2,3,4-tetrahydro-naphthalen-1-ylamine, 2-(5-diethylamino-2-formyl-phenoxy)-3-methyl-butyric acid, and 1-isocyano-butane.

Example 117

4-Benzo[1,3]dioxol-5-ylmethyl-8-diethylamino-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

10 The title compound, MS m/e: 510.4 (M+1), was obtained in analogy to example 3 from benzo[1,3]dioxol-5-yl-methylamine, 2-(5-diethylamino-2-formyl-phenoxy)-3-methyl-butyric acid, and 2-isocyano-2-methyl-propane.

Example 118

4-Benzo[1,3]dioxol-5-ylmethyl-8-diethylamino-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-
15 benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 536.4 (M+1), was obtained in analogy to example 3 from benzo[1,3]dioxol-5-yl-methylamine, 2-(5-diethylamino-2-formyl-phenoxy)-3-methyl-butyric acid, and isocyano-cyclohexane.

Example 119

20 4-Benzo[1,3]dioxol-5-ylmethyl-8-diethylamino-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid butylamide

The title compound, MS m/e: 510.4 (M+1), was obtained in analogy to example 3 from benzo[1,3]dioxol-5-yl-methylamine, 2-(5-diethylamino-2-formyl-phenoxy)-3-methyl-butyric acid, and 1-isocyano-butane.

25

Example 120

8-Diethylamino-4-[2-(1H-indol-3-yl)-ethyl]-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

The title compound, MS m/e: 519.4 (M+1), was obtained in analogy to example 3 from 2-(1H-indol-3-yl)-ethylamine, 2-(5-diethylamino-2-formyl-phenoxy)-3-methyl-
30 butyric acid, and 2-isocyano-2-methyl-propane.

Example 121

8-Diethylamino-2-isopropyl-4-[2-(5-methoxy-1H-indol-3-yl)-ethyl]-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid butylamide

The title compound, MS m/e: 549.4 (M+1), was obtained in analogy to example 3
5 from 2-(5-methoxy-1H-indol-3-yl)-ethylamine, 2-(5-diethylamino-2-formyl-phenoxy)-3-methyl-butyric acid, and 1-isocyano-butane.

Example 122

4-(4-Dimethylamino-benzyl)-2-isopropyl-8-methoxy-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid butylamide

10 The title compound, MS m/e: 468.4 (M+1), was obtained in analogy to example 3 from 4-dimethylaminobenzylamine, 2-(2-formyl-5-methoxy-phenoxy)-3-methyl-butyric acid, and 1-isocyano-butane.

Example 123

15 4-(4-Chloro-2-fluoro-benzyl)-2-isopropyl-8-methoxy-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

The title compound, MS m/e: 477.2 (M+1), was obtained in analogy to example 3 from 4-chloro-2-fluorobenzylamine, 2-(2-formyl-5-methoxy-phenoxy)-3-methyl-butyric acid, and 2-isocyano-2-methyl-propane.

Example 124

20 4-(4-Chloro-2-fluoro-benzyl)-2-isopropyl-8-methoxy-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 503.3 (M+1), was obtained in analogy to example 3 from 4-chloro-2-fluorobenzylamine, 2-(2-formyl-5-methoxy-phenoxy)-3-methyl-butyric acid, and isocyano-cyclohexane.

25

Example 125

4-(4-Chloro-2-fluoro-benzyl)-2-isopropyl-8-methoxy-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid butylamide

The title compound, MS m/e: 477.3 (M+1), was obtained in analogy to example 3 from 4-chloro-2-fluorobenzylamine, 2-(2-formyl-5-methoxy-phenoxy)-3-methyl-
30 butyric acid, and 1-isocyano-butane.

Example 126

7-Bromo-4-(2,6-difluoro-benzyl)-2-methyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 529.2 (M+23), was obtained in analogy to example 3
5 from 2,6-difluorobenzylamine, 2-(4-bromo-2-formyl-phenoxy)-propionic acid, and isocyano-cyclohexane.

Example 127

{[4-(1-Benzyl-piperidin-4-yl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carbonyl]-amino}-acetic acid tert-butyl ester

10 The title compound, MS m/e: 536.4 (M+1), was obtained in analogy to example 3 from 1-benzyl-piperidin-4-ylamine, 2-(2-formyl-phenoxy)-3-methyl-butyric acid, and isocyano-acetic acid tert-butyl ester.

Example 128

15 ({7-Chloro-2-isopropyl-4-[2-(5-methoxy-1H-indol-3-yl)-ethyl]-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carbonyl]-amino)-acetic acid tert-butyl ester

The title compound, MS m/e: 592.2 (M+23), was obtained in analogy to example 3 from 2-(5-methoxy-1H-indol-3-yl)-ethylamine, 2-(4-chloro-2-formyl-phenoxy)-3-methyl-butyric acid, and isocyano-acetic acid tert-butyl ester.

Example 129

20 ({7-Chloro-2-isopropyl-4-[2-(4-nitro-phenyl)-ethyl]-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carbonyl]-amino)-acetic acid tert-butyl ester

The title compound, MS m/e: 546.2 (M+1), was obtained in analogy to example 3 from 4-nitrophenylethylamine, 2-(4-chloro-2-formyl-phenoxy)-3-methyl-butyric acid, and isocyano-acetic acid tert-butyl ester.

25 Example 130

4-(1H-Benzoimidazol-2-ylmethyl)-9-ethoxy-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

The title compound, MS m/e: 479.3 (M+1), was obtained in analogy to example 3 from benzoimidazol-2-yl-methylamine, 2-(2-ethoxy-6-formyl-phenoxy)-3-methyl-
30 butyric acid, and 2-isocyano-2-methyl-propane.

Example 131

4-(1H-Benzoimidazol-2-ylmethyl)-9-ethoxy-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 505.3 (M+1), was obtained in analogy to example 3
5 from benzoimidazol-2-yl-methylamine, 2-(2-ethoxy-6-formyl-phenoxy)-3-methyl-butyrlic acid, and isocyano-cyclohexane.

Example 132

7-Chloro-4-(2,6-difluoro-benzyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid benzylamide

10 The title compound, MS m/e: 499.2 (M+1), was obtained in analogy to example 3 from 2,6-difluorobenzylamine, 2-(4-chloro-2-formyl-phenoxy)-3-methyl-butyrlic acid, and isocyanomethyl-benzene.

Example 133

15 7-Chloro-4-cyclohexyl-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid benzylamide

The title compound, MS m/e: 455.3 (M+1), was obtained in analogy to example 3 from cyclohexylamine, 2-(4-chloro-2-formyl-phenoxy)-3-methyl-butyrlic acid, and isocyanomethyl-benzene.

Example 134

20 {[7-Chloro-2-isopropyl-3-oxo-4-(3-trifluoromethyl-benzyl)-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carbonyl]-amino}-acetic acid tert-butyl ester

The title compound, MS m/e: 577.18 (M+23), was obtained in analogy to example 3 from 3-trifluoromethylbenzylamine, 2-(4-chloro-2-formyl-phenoxy)-3-methyl-butyrlic acid, and isocyano-acetic acid tert-butyl ester.

25 Example 135

4-(1-Benzyl-piperidin-4-yl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid benzylamide

The title compound, MS m/e: 512.4 (M+1), was obtained in analogy to example 3 from 1-benzyl-piperidin-4-ylamine, 2-(2-formyl-phenoxy)-3-methyl-butyrlic acid, and
30 isocyanomethyl-benzene.

Example 136

4-(1-Benzyl-piperidin-4-yl)-7-chloro-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid benzylamide

The title compound, MS m/e: 546.3 (M+1), was obtained in analogy to example 3
5 from 1-benzyl-piperidin-4-ylamine, 2-(4-chloro-2-formyl-phenoxy)-3-methyl-butyric acid, and isocyanomethyl-benzene.

Example 137

{[4-(1-Benzyl-piperidin-4-yl)-7-chloro-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carbonyl]-amino}-acetic acid tert-butyl ester

10 The title compound, MS m/e: 570.3 (M+1), was obtained in analogy to example 3 from 1-benzyl-piperidin-4-ylamine, 2-(4-chloro-2-formyl-phenoxy)-3-methyl-butyric acid, and isocyano-acetic acid tert-butyl ester.

Example 138

{[4-(1-Carbamoyl-2-phenyl-ethyl)-7-chloro-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carbonyl]-amino}-acetic acid tert-butyl ester
15

The title compound, MS m/e: 566.21 (M+23), was obtained in analogy to example 3 from 2-amino-3-phenyl-propionamide, 2-(4-chloro-2-formyl-phenoxy)-3-methyl-butyric acid, and isocyano-acetic acid tert-butyl ester.

Example 139

20 7-Chloro-4-[2-(1H-indol-3-yl)-ethyl]-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid benzylamide

The title compound, MS m/e: 516.3 (M+1), was obtained in analogy to example 3 from 2-(1H-indol-3-yl)-ethylamine, 2-(4-chloro-2-formyl-phenoxy)-3-methyl-butyric acid, and isocyanomethyl-benzene.

25

Example 140

7-Chloro-4-(4-dimethylamino-benzyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid benzylamide

The title compound, MS m/e: 528.3 (M+23), was obtained in analogy to example 3 from 4-dimethylaminobenzylamine, 2-(4-chloro-2-formyl-phenoxy)-3-methyl-butyric
30 acid, and isocyanomethyl-benzene.

Example 141

{[4-(2-Benzylsulfanyl-ethyl)-7-chloro-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carbonyl]-amino}-acetic acid tert-butyl ester

- The title compound, MS m/e: 569.3 (M+23), was obtained in analogy to example 3
5 from 2-benzylsulfanyl-ethylamine, 2-(4-chloro-2-formyl-phenoxy)-3-methyl-butyric acid, and isocyano-acetic acid tert-butyl ester.

Example 142

{[7-Chloro-2-isopropyl-4-(2-methylsulfanyl-ethyl)-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carbonyl]-amino}-acetic acid tert-butyl ester

- 10 The title compound, MS m/e: 493.3 (M+23), was obtained in analogy to example 3 from 2-methylsulfanyl-ethylamine, 2-(4-chloro-2-formyl-phenoxy)-3-methyl-butyric acid, and isocyano-acetic acid tert-butyl ester.

Example 143

- 15 {[7-Chloro-2-isopropyl-3-oxo-4-(4-sulfamoyl-benzyl)-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carbonyl]-amino}-acetic acid tert-butyl ester

The title compound, MS m/e: 588.3 (M+23), was obtained in analogy to example 3 from 4-aminomethyl-benzenesulfonamide, 2-(4-chloro-2-formyl-phenoxy)-3-methyl-butyric acid, and isocyano-acetic acid tert-butyl ester.

Example 144

- 20 ({2-Isopropyl-4-[2-(5-nitro-pyridin-2-ylamino)-ethyl]-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carbonyl}-amino)-acetic acid tert-butyl ester

The title compound, MS m/e: 528.3 (M+1), was obtained in analogy to example 3 from 2-(5-nitro-pyridin-2-ylamino)-ethylamine, 2-(2-formyl-phenoxy)-3-methyl-butyric acid, and isocyano-acetic acid tert-butyl ester.

25

Example 145

4-(2,6-Difluoro-benzyl)-9-ethoxy-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

- The title compound, MS m/e: 501.3 (M+1), was obtained in analogy to example 3 from 2,6-difluorobenzylamine, 2-(2-ethoxy-6-formyl-phenoxy)-3-methyl-butyric acid,
30 and isocyano-cyclohexane.

Example 146

4-(4-Dimethylamino-benzyl)-9-ethoxy-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

The title compound, MS m/e: 482.4 (M+1), was obtained in analogy to example 3
5 from 4-dimethylaminobenzylamine, 2-(2-ethoxy-6-formyl-phenoxy)-3-methyl-butyric
acid, and 2-isocyano-2-methyl-propane.

Example 147

4-(1-Benzyl-piperidin-4-yl)-9-ethoxy-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

10 The title compound, MS m/e: 548.4 (M+1), was obtained in analogy to example 3
from 1-benzyl-piperidin-4-ylamine, 2-(2-ethoxy-6-formyl-phenoxy)-3-methyl-butyric
acid, and isocyano-cyclohexane.

Example 148

4-(4-Dimethylamino-benzyl)-9-ethoxy-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-
15 benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 529.4 (M+23), was obtained in analogy to example 3
from 4-dimethylaminobenzylamine, 2-(2-ethoxy-6-formyl-phenoxy)-3-methyl-butyric
acid, and isocyano-cyclohexane.

Example 149

20 9-Ethoxy-4-[2-(1H-indol-3-yl)-ethyl]-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 518.4 (M+1), was obtained in analogy to example 3
from 2-(1H-indol-3-yl)-ethylamine, 2-(2-ethoxy-6-formyl-phenoxy)-3-methyl-butyric
acid, and isocyano-cyclohexane.

25

Example 150

9-Ethoxy-2-isopropyl-4-[2-(5-methoxy-1H-indol-3-yl)-ethyl]-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

The title compound, MS m/e: 522.4 (M+1), was obtained in analogy to example 3
from 2-(5-methoxy-1H-indol-3-yl)-ethylamine, 2-(2-ethoxy-6-formyl-phenoxy)-3-
30 methyl-butyric acid, and 2-isocyano-2-methyl-propane.

Example 151

9-Ethoxy-2-isopropyl-4-[2-(5-methoxy-1H-indol-3-yl)-ethyl]-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 548.4 (M+1), was obtained in analogy to example 3
5 from 2-(5-methoxy-1H-indol-3-yl)-ethylamine, 2-(2-ethoxy-6-formyl-phenoxy)-3-methyl-butyric acid, and isocyano-cyclohexane.

Example 152

7-Bromo-4-(2-chloro-benzyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid (2,6-dimethyl-phenyl)-amide

10 The title compound, MS m/e: 555.2 (M+1), was obtained in analogy to example 3 from 2-chlorobenzylamine, 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid, and 2-isocyano-1,3-dimethyl-benzene.

Example 153

15 7-Bromo-4-cyclohexyl-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid (2,6-dimethyl-phenyl)-amide

The title compound, MS m/e: 513.2 (M+1), was obtained in analogy to example 3 from cyclohexylamine, 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid, and 2-isocyano-1,3-dimethyl-benzene.

Example 154

20 7-Bromo-2-isopropyl-3-oxo-4-(2-thiophen-2-yl-ethyl)-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid (2,6-dimethyl-phenyl)-amide

The title compound, MS m/e: 541.2 (M+1), was obtained in analogy to example 3 from 2-thiophen-2-yl-ethylamine, 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid, and 2-isocyano-1,3-dimethyl-benzene.

25

Example 155

4-(1-Benzyl-piperidin-4-yl)-7-bromo-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid (2,6-dimethyl-phenyl)-amide

The title compound, MS m/e: 604.3 (M+1), was obtained in analogy to example 3 from 1-benzyl-piperidin-4-ylamine, 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric
30 acid, and 2-isocyano-1,3-dimethyl-benzene.

Example 156

7-Bromo-2-isopropyl-3-oxo-4-pyridin-3-ylmethyl-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid (2,6-dimethyl-phenyl)-amide

- The title compound, MS m/e: 522.2 (M+1), was obtained in analogy to example 3
5 from pyridin-3-yl-methylamine, 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid,
and 2-isocyano-1,3-dimethyl-benzene.

Example 157

7-Bromo-4-carbamoylmethyl-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

- 10 The title compound, MS m/e: 440.2 (M+1), was obtained in analogy to example 3
from 2-amino-acetamide, 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid, and 2-
isocyano-2-methyl-propane.

Example 158

15 7-Bromo-4-furan-2-ylmethyl-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

The title compound, MS m/e: 485.1 (M+23), was obtained in analogy to example 3
from C-furan-2-yl-methylamine, 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid,
and 2-isocyano-2-methyl-propane.

Example 159

20 7-Bromo-2-isopropyl-3-oxo-4-(2-phenyl-cyclopropyl)-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 525.2 (M+1), was obtained in analogy to example 3
from 2-phenyl-cyclopropylamine, 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric
acid, and isocyano-cyclohexane.

25

Example 160

7-Bromo-4-(4-dimethylamino-benzyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

- The title compound, MS m/e: 538.3 (M+23), was obtained in analogy to example 3
from 4-dimethylaminobenzylamine, 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric
30 acid, and 2-isocyano-2-methyl-propane.

Example 161

7-Bromo-4-(4-dimethylamino-benzyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid butylamide

The title compound, MS m/e: 516.3 (M+1), was obtained in analogy to example 3
5 from 4-dimethylaminobenzylamine, 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid, and 1-isocyano-butane.

Example 162

4-(2-Benzylsulfanyl-ethyl)-7-bromo-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

10 The title compound, MS m/e: 559.2 (M+1), was obtained in analogy to example 3 from 2-benzylsulfanyl-ethylamine, 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid, and isocyano-cyclohexane.

Example 163

15 7-Bromo-2-isopropyl-4-(2-methylsulfanyl-ethyl)-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 483.2 (M+1), was obtained in analogy to example 3 from 2-methylsulfanyl-ethylamine, 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid, and isocyano-cyclohexane.

Example 164

20 7-Bromo-2-isopropyl-4-[2-(4-nitro-phenyl)-ethyl]-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 558.3 (M+1), was obtained in analogy to example 3 from 4-nitrophenylethylamine, 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric acid, and isocyano-cyclohexane.

25 Example 165

7-Bromo-4-(4-chloro-2-fluoro-benzyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamid

The title compound, MS m/e: 551.2 (M+1), was obtained in analogy to example 3 from 4-chloro-2-fluorobenzylamine, 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyric
30 acid, and isocyano-cyclohexane.

Example 166

7-Bromo-4-(4-dimethylamino-benzyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 564.3 (M+23), was obtained in analogy to example 3
5 from 4-dimethylaminobenzylamine, 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyrlic acid, and isocyano-cyclohexane.

Example 167

7-Bromo-2-isopropyl-3-oxo-4-(2-oxo-tetrahydro-furan-3-yl)-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

10 The title compound, MS m/e: 493.2 (M+1), was obtained in analogy to example 3 from 3-amino-dihydro-furan-2-one, 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyrlic acid, and isocyano-cyclohexane.

Example 168

15 7-Bromo-2-isopropyl-4-[2-(5-nitro-pyridin-2-ylamino)-ethyl]-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 574.2 (M+1), was obtained in analogy to example 3 from 2-(5-nitro-pyridin-2-ylamino)-ethylamine, 2-(4-bromo-2-formyl-phenoxy)-3-methyl-butyrlic acid, and isocyano-cyclohexane.

Example 169

20 {[7-Bromo-4-(4-chloro-2-fluoro-benzyl)-2-isopropyl-9-methoxy-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carbonyl]-amino}-acetic acid tert-butyl ester

The title compound, MS m/e: 635.1 (M+23), was obtained in analogy to example 3 from 4-chloro-2-fluorobenzylamine, 2-(4-bromo-2-formyl-6-methoxy-phenoxy)-3-methyl-butyrlic acid, and isocyano-acetic acid tert-butyl ester.

25

Example 170

7-Bromo-2-isopropyl-9-methoxy-4-[2-(5-methoxy-1H-indol-3-yl)-ethyl]-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid (2,6-dimethyl-phenyl)-amide

The title compound, MS m/e: 634.3 (M+1), was obtained in analogy to example 3 from 2-(5-methoxy-1H-indol-3-yl)-ethylamine, 2-(4-bromo-2-formyl-6-methoxy-phenoxy)-3-methyl-butyrlic acid, and 2-isocyano-1,3-dimethyl-benzene.
30

Example 171

7-Bromo-2-isopropyl-9-methoxy-4-[2-(5-nitro-pyridin-2-ylamino)-ethyl]-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid (2,6-dimethyl-phenyl)-amide

- 5 The title compound, MS m/e: 626.3 (M+1), was obtained in analogy to example 3 from 2-(5-nitro-pyridin-2-ylamino)-ethylamine, 2-(4-bromo-2-formyl-6-methoxy-phenoxy)-3-methyl-butyric acid, and 2-isocyano-1,3-dimethyl-benzene.

Example 172

- 10 4-(4-Dimethylamino-benzyl)-2-isopropyl-8-methoxy-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid benzylamide

The title compound, MS m/e: 502.4 (M+1), was obtained in analogy to example 3 from 4-dimethylaminobenzylamine, 2-(2-formyl-4-methoxy-phenoxy)-3-methyl-butyric acid, and isocyanomethyl-benzene.

Example 173

- 15 4-(4-Dimethylamino-benzyl)-2-isopropyl-8-methoxy-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid (2,6-dimethyl-phenyl)-amide

The title compound, MS m/e: 515.4 (M+1), was obtained in analogy to example 3 from 4-dimethylaminobenzylamine, 2-(2-formyl-4-methoxy-phenoxy)-3-methyl-butyric acid, and 2-isocyano-1,3-dimethyl-benzene.

- 20 Example 174

2-tert-Butoxymethyl-7-chloro-4-(2,6-difluoro-benzyl)-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

- 25 The title compound, MS m/e: 557.21 (M+23), was obtained in analogy to example 3 from 2,6-difluorobenzylamine, 3-tert-butoxy-2-(4-chloro-2-formyl-phenoxy)-propionic acid, and isocyano-cyclohexane.

Example 175

2-tert-Butoxymethyl-7-chloro-4-furan-2-ylmethyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

- 30 The title compound, MS m/e: 511.2 (M+23), was obtained in analogy to example 3 from furan-2-yl-methylamine, 3-tert-butoxy-2-(4-chloro-2-formyl-phenoxy)-propionic acid, and isocyano-cyclohexane.

Example 176

7-Bromo-4-(2,6-difluoro-benzyl)-2-isopropyl-9-methoxy-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 565.2 (M+1), was obtained in analogy to example 3 from 2,6-difluorobenzylamine, 2-(4-bromo-2-formyl-6-methoxy-phenoxy)-3-methyl-butyl-
5 butyric acid, and isocyano-cyclohexane.

Example 177

4-(1-Benzyl-piperidin-4-yl)-7-bromo-2-isopropyl-9-methoxy-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

10 The title compound, MS m/e: 586.3 (M+1), was obtained in analogy to example 3 from 1-benzyl-piperidin-4-ylamine, 2-(4-bromo-2-formyl-6-methoxy-phenoxy)-3-methyl-butyl-
10 butyric acid, and 2-isocyano-2-methyl-propane.

Example 178

7-Bromo-4-(4-dimethylamino-benzyl)-2-isopropyl-9-methoxy-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide
15

The title compound, MS m/e: 594.3 (M+23), was obtained in analogy to example 3 from 4-dimethylaminobenzylamine, 2-(4-bromo-2-formyl-6-methoxy-phenoxy)-3-methyl-butyl-
15 butyric acid, and isocyano-cyclohexane.

Example 179

20 4-(1-Benzyl-piperidin-4-yl)-7-bromo-2-isopropyl-9-methoxy-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid butylamide

The title compound, MS m/e: 586.3 (M+1), was obtained in analogy to example 3 from 1-benzyl-piperidin-4-ylamine, 2-(4-bromo-2-formyl-6-methoxy-phenoxy)-3-methyl-butyl-
20 butyric acid, and 1-isocyano-butane.

25

Example 180

7-Bromo-4-(4-dimethylamino-benzyl)-2-isopropyl-9-methoxy-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid butylamide

The title compound, MS m/e: 568.3 (M+23), was obtained in analogy to example 3 from 4-dimethylaminobenzylamine, 2-(4-bromo-2-formyl-6-methoxy-phenoxy)-3-methyl-butyl-
30 butyric acid, and 1-isocyano-butane.

Example 181

7-Bromo-2-isopropyl-9-methoxy-3-oxo-4-pyridin-3-ylmethyl-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 530.3 (M+1), was obtained in analogy to example 3
5 from pyridin-3-yl-methylamine, 2-(4-bromo-2-formyl-6-methoxy-phenoxy)-3-methyl-butyrac acid, and isocyano-cyclohexane.

Example 182

7-Bromo-4-[2-(1H-indol-3-yl)-ethyl]-2-isopropyl-9-methoxy-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

10 The title compound, MS m/e: 556.3 (M+1), was obtained in analogy to example 3 from 2-(1H-indol-3-yl)-ethylamine, 2-(4-bromo-2-formyl-6-methoxy-phenoxy)-3-methyl-butyrac acid, and 2-isocyano-2-methyl-propane.

Example 183

15 7-Bromo-2-isopropyl-9-methoxy-4-[2-(5-methoxy-1H-indol-3-yl)-ethyl]-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide

The title compound, MS m/e: 586.3 (M+1), was obtained in analogy to example 3 from 2-(5-methoxy-1H-indol-3-yl)-ethylamine, 2-(4-bromo-2-formyl-6-methoxy-phenoxy)-3-methyl-butyrac acid, and 2-isocyano-2-methyl-propane.

Example 184

20 7-Bromo-2-isopropyl-9-methoxy-4-[2-(5-methoxy-1H-indol-3-yl)-ethyl]-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 612.3 (M+1), was obtained in analogy to example 3 from 2-(5-methoxy-1H-indol-3-yl)-ethylamine, 2-(4-bromo-2-formyl-6-methoxy-phenoxy)-3-methyl-butyrac acid, and isocyano-cyclohexane.

25

Example 185

7-Bromo-2-isopropyl-9-methoxy-4-[2-(5-nitro-pyridin-2-ylamino)-ethyl]-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide

The title compound, MS m/e: 604.3 (M+1), was obtained in analogy to example 3 from 2-(5-nitro-pyridin-2-ylamino)-ethylamine, 2-(4-bromo-2-formyl-6-methoxy-phenoxy)-3-methyl-butyrac acid, and isocyano-cyclohexane.
30

Example 186

{[7-Bromo-4-(2-chloro-benzyl)-2-isopropyl-9-methoxy-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carbonyl]-amino}-acetic acid tert-butyl ester

The title compound, MS m/e: 617.2 (M+23), was obtained in analogy to example 3
5 from 2-chlorobenzylamine, 2-(4-bromo-2-formyl-6-methoxy-phenoxy)-3-methyl-butyrac acid, and isocyano-acetic acid tert-butyl ester.

Example 187

[(7-Bromo-4-carbamoylmethyl-2-isopropyl-9-methoxy-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carbonyl)-amino]-acetic acid tert-butyl ester

10 The title compound, MS m/e: 550.2 (M+23), was obtained in analogy to example 3 from 2-amino-acetamide, 2-(4-bromo-2-formyl-6-methoxy-phenoxy)-3-methyl-butyrac acid, and isocyano-acetic acid tert-butyl ester.

Example 188

15 {[7-Bromo-4-(3,5-dichloro-benzyl)-2-isopropyl-9-methoxy-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carbonyl]-amino}-acetic acid tert-butyl ester

The title compound, MS m/e: 651.07 (M+23), was obtained in analogy to example 3 from 3,5-dichlorobenzylamine, 2-(4-bromo-2-formyl-6-methoxy-phenoxy)-3-methyl-butyrac acid, and isocyano-acetic acid tert-butyl ester.

Example 189

20 {[7-Bromo-2-isopropyl-9-methoxy-3-oxo-4-(2-phenyl-cyclopropyl)-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carbonyl]-amino}-acetic acid tert-butyl ester

The title compound, MS m/e: 587.2 (M+1), was obtained in analogy to example 3 from 2-phenyl-cyclopropylamine, 2-(4-bromo-2-formyl-6-methoxy-phenoxy)-3-methyl-butyrac acid, and isocyano-acetic acid tert-butyl ester.

25

Example 190

{[7-Bromo-2-isopropyl-9-methoxy-3-oxo-4-(1,2,3,4-tetrahydro-naphthalen-1-yl)-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carbonyl]-amino}-acetic acid tert-butyl ester

The title compound, MS m/e: 623.3 (M+23), was obtained in analogy to example 3 from 1,2,3,4-tetrahydro-naphthalen-1-ylamine, 2-(4-bromo-2-formyl-6-methoxy-phenoxy)-3-methyl-butyric acid, and isocyano-acetic acid tert-butyl ester.

Example 191

- 5 [(7-Bromo-2-isopropyl-9-methoxy-3-oxo-4-pyridin-3-ylmethyl-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carbonyl)-amino]-acetic acid tert-butyl ester

The title compound, MS m/e: 562.2 (M+1), was obtained in analogy to example 3 from pyridin-3-yl-methylamine, 2-(4-bromo-2-formyl-6-methoxy-phenoxy)-3-methyl-butyric acid, and isocyano-acetic acid tert-butyl ester.

Example 192

10

- [(4-Benzo[1,3]dioxol-5-ylmethyl-7-bromo-2-isopropyl-9-methoxy-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carbonyl)-amino]-acetic acid tert-butyl ester

- The title compound, MS m/e: 627.3 (M+23), was obtained in analogy to example 3 from benzo[1,3]dioxol-5-yl-methylamine, 2-(4-bromo-2-formyl-6-methoxy-phenoxy)-3-methyl-butyric acid, and isocyano-acetic acid tert-butyl ester.

15

Example 193

- 9-Ethoxy-4-[2-(1H-indol-3-yl)-ethyl]-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid (2,6-dimethyl-phenyl)-amide

- The title compound, MS m/e: 540.4 (M+1), was obtained in analogy to example 3 from 2-(1H-indol-3-yl)-ethylamine, 2-(2-ethoxy-6-formyl-phenoxy)-3-methyl-butyric acid, and 2-isocyano-1,3-dimethyl-benzene.

20

Example 194

- 8-Diethylamino-2-isopropyl-4-(1-naphthalen-1-yl-ethyl)-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid benzylamide

- 25 The title compound, MS m/e: 564.4 (M+1), was obtained in analogy to example 3 from 1-naphthalen-1-yl-ethylamine, 2-(5-diethylamino-2-formyl-phenoxy)-3-methyl-butyric acid, and isocyanomethyl-benzene.

Example 195

- 8-Diethylamino-4-furan-2-ylmethyl-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid benzylamide

30

The title compound, MS m/e: 490.4 (M+1), was obtained in analogy to example 3 from C-furan-2-yl-methylamine, 2-(5-diethylamino-2-formyl-phenoxy)-3-methyl-butyric acid, and isocyanomethyl-benzene.

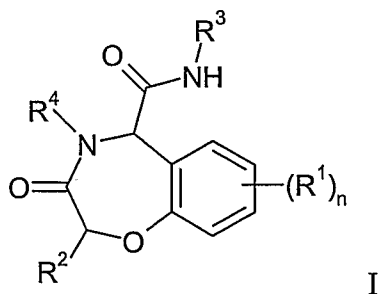
Example 196

- 5 2-Isopropyl-8-methoxy-4-(1-naphthalen-1-yl-ethyl)-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid (2,6-dimethyl-phenyl)-amide

The title compound, MS m/e: 559.3 (M+23), was obtained in analogy to example 3 from 1-naphthalen-1-yl-ethylamine, 2-(2-formyl-5-methoxy-phenoxy)-3-methyl-butyric acid, and 2-isocyano-1,3-dimethyl-benzene.

Claims

1. Compounds of the general formula



5 wherein

R^1 is hydrogen, lower alkoxy, halogen or $-NR'R''$;

n is 1 or 2;

R', R'' are independently from each other hydrogen or lower alkyl;

R^2 is hydrogen, lower alkyl, $-(CH_2)_m$ -cycloalkyl, $-(CH_2)_m$ -phenyl or

10 $-(CH_2)_m$ -O-lower alkyl;

m is 0, 1 or 2;

R^3 is lower alkyl, $-(CH_2)_m$ -C(O)O-lower alkyl, cycloalkyl or $-(CH_2)_m$ -phenyl, which is unsubstituted or substituted by one or two substituents, selected from the group consisting of halogen or lower alkyl;

15 R^4 is $-(CH_2)_o$ -phenyl, which is unsubstituted or substituted by one or two substituents, selected from the group consisting of halogen, trifluoromethyl, $-NR'R''$, nitro or $-SO_2NH_2$, or is

- cycloalkyl, unsubstituted or substituted by phenyl, or is

20 $-(CR'R'')_o$ -heterocyclyl, selected from the group consisting of tetrahydropyran-4-yl, pyridin-3-yl, indol-3-yl, optionally substituted by halogen or lower alkoxy, or thiophen-2-yl, furan-2-yl, $-NH$ -pyridin-2-yl, optionally substituted by nitro, or benzoimidazol-2-yl, 2-oxo-tetrahydrofuran, 1-benzyl-piperidin-4-yl, or benzo[1,3]dioxol-5-yl or is

- tetrahydro-naphthalen-1-yl,
- CHR'-naphthalen-2-yl,
- fluoren-9-yl,
- (CH₂)_o-S-lower alkyl,
- 5 - (CH₂)_o-S-benzyl,
- (CH₂)_o-C(O)NH₂,
- (CH₂)_oNR'R'',
- CH[C(O)NH₂]- (CH₂)_o-phenyl,
- (CH₂)_o-CF₃,
- 10 - (CH₂)_o-CR'R''-CH₂-NR'R'';

and o is 1 or 2;

and pharmaceutically suitable acid addition salts thereof.

2. Compounds in accordance with claim 1, wherein R² is lower alkyl.

15

3. Compounds in accordance with claim 2, wherein R³ is cycloalkyl and R⁴ is -(CH₂)_o-phenyl, substituted by di-halogen or NR'R''.

4. Compounds in accordance with claim 3, which compounds are
- 20 7-bromo-4-(2,6-difluoro-benzyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide,
- 7-chloro-4-(4-chloro-2-fluoro-benzyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide,
- 7-bromo-4-(4-chloro-2-fluoro-benzyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-
- 25 benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamid or
- 7-bromo-4-(4-dimethylamino-benzyl)-2-isopropyl-9-methoxy-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide.

5. Compounds in accordance with claim 2, wherein R³ is cycloalkyl and R⁴ is
- 30 tetrahydro-pyran-4-yl.

6. Compounds in accordance with claim 5, which compound is

7-chloro-2-ethyl-3-oxo-4-(tetrahydro-pyran-4-yl)-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide.

7. Compounds in accordance with claim 2, wherein R^3 is cycloalkyl and R^4 is tetrahydro-naphthalen-1-yl.

8. Compounds in accordance with claim 7, which compounds are
7-chloro-2-isopropyl-3-oxo-4-(1,2,3,4-tetrahydro-naphthalen-1-yl)-2,3,4,5-tetrahydro-
5 benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamid or
8-diethylamino-2-isopropyl-3-oxo-4-(1,2,3,4-tetrahydro-naphthalen-1-yl)-2,3,4,5-
tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide.

9. Compounds in accordance with claim 2, wherein R^3 is cycloalkyl and R^4 is
10 $-(CH_2)_o$ -pyridin-3-yl.

10. Compounds in accordance with claim 9, which compound is
7-chloro-2-isopropyl-3-oxo-4-pyridin-3-ylmethyl-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid cyclohexylamide.

15

11. Compounds in accordance with claim 2, wherein R^3 is lower alkyl and R^4 is
 $-(CH_2)_o$ -phenyl, substituted by di-halogen or $NR'R''$.

12. Compounds in accordance with claim 11, which compounds are
20 7-chloro-4-(2,6-difluoro-benzyl)-2-ethyl-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide,
4-(4-dimethylamino-benzyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid butylamide,
7-chloro-4-(4-dimethylamino-benzyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-
25 benzo[f][1,4]oxazepine-5-carboxylic acid butylamide,
4-(4-dimethylamino-benzyl)-2-isopropyl-8-methoxy-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid butylamide or
7-bromo-4-(4-dimethylamino-benzyl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide.

30

13. Compounds in accordance with claim 2, wherein R^3 is lower alkyl and R^4 is
 $-(CR'R'')_o$ indol-3-yl, substituted by lower alkoxy.

14. Compounds in accordance with claim 13, which compound is
9-ethoxy-2-isopropyl-4-[2-(5-methoxy-1H-indol-3-yl)-ethyl]-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide.

5 15. Compounds in accordance with claim 2, wherein R³ is lower alkyl and R⁴ is
cycloalkyl.

16. Compounds in accordance with claim 13, which compound is
7-chloro-4-cyclopentyl-2-ethyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-
10 carboxylic acid tert-butylamide.

17. Compounds in accordance with claim 2, wherein R³ is lower alkyl and R⁴ is
- (CH₂)_o-benzo[1,3]dioxol-5-yl.

15 18. Compounds in accordance with claim 17, which compound is
4-benzo[1,3]dioxol-5-ylmethyl-8-diethylamino-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide.

19. Compounds in accordance with claim 2, wherein R³ is lower alkyl and R⁴ is
20 1-benzyl-piperidin-4-yl.

20. Compounds in accordance with claim 19, which compound is
4-(1-benzyl-piperidin-4-yl)-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-
benzo[f][1,4]oxazepine-5-carboxylic acid tert-butylamide.
25

21. Compounds in accordance with claim 2, wherein R³ is -(CH₂)_m-phenyl and R⁴
is cycloalkyl.

22. Compounds in accordance with claim 21, which compound is

7-chloro-4-cyclohexyl-2-isopropyl-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carboxylic acid benzylamide.

23. Compounds in accordance with claim 2, wherein R^3 is

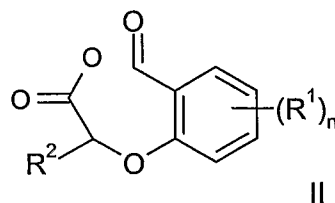
5 $-(CH_2)_m-C(O)O$ -lower alkyl and R^4 is $-(CH_2)_o$ -phenyl, substituted by CF_3 or halogen.

24. Compounds in accordance with claim 23, which compounds are

{[7-chloro-2-isopropyl-3-oxo-4-(3-trifluoromethyl-benzyl)-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carbonyl]-amino}-acetic acid tert-butyl ester or
10 {[7-bromo-4-(2-chloro-benzyl)-2-isopropyl-9-methoxy-3-oxo-2,3,4,5-tetrahydro-benzo[f][1,4]oxazepine-5-carbonyl]-amino}-acetic acid tert-butyl ester.

25. A process for preparing a compound of formula I as defined in claim 1, which process comprises

15 a) reacting a compound of formula



with a compound of formula

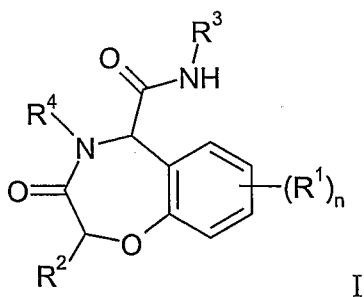


and with a compound of formula



to a compound of formula

- 60 -



wherein the substituents are as defined in claim 1,

and

if desired, converting the compounds obtained into pharmaceutically acceptable
5 acid addition salts.

26. A compound according to any one of claims 1 – 24, whenever prepared by a
process as claimed in claim 25 or by an equivalent method.

27. A medicament containing one or more compounds as claimed in any one of
claims
10 1 – 24 and pharmaceutically acceptable excipients.

28. A medicament according to claim 27 for the treatment of Alzheimer's disease.

29. The use of a compound in any one of claims 1 – 24 for the manufacture of
medicaments for the treatment of Alzheimer's disease.

30. The invention as hereinbefore described.